Prom Name	Rev	Part No.	Location	Page	Comments	
SwitchProm	R	F93427	i14	14	New Rev for 16K Control Store CP	256 x 4
KernPC16Prom	В	F93427	h14	15	Standard	256 x 4
CSIntProm	D	F93453	e20	22	Standard	1K x 4
StackVirtProm	1	F93427	h24	15	Standard	256 x 4
ScheduleProm	D	F93453	h18	14	Standard	1K x 4
ErrorProm	E	F93453	g14	15	Standard	1K x 4
IBProm-PC.0	G	F93453	i17	05	Standard	1K x 4
IBProm-PC.4	G	F93453	h17	05	Standard	1K x 4
DesMpProm.0	В	F93427	a16	33	Added to control DES logic	256 x 4
DesMpProm.4	В	F93427	b16	33	Added to control DES logic	256 x 4
DesSpProm	Α	F93427	b15	33	Added to control DES logic	256 x 4

Prom files are stored on [Indigo]CDandelionCPE>Proms>*

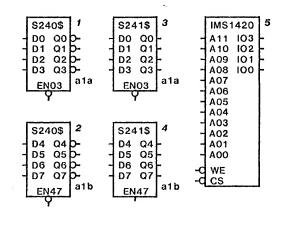
Bringover /a [Indigo]<Dandelion>CPE>DfFiles>Proms.df

to fetch all files, sources, tools, etc.

Labels:

		KernPC16								DesMp.4	DesSp
- 1	114 Rev-R	h14 Rev-B	e20 Rev-D	h24 Rev-I	h18 Rev-D	g14 Rev-E	i17 Rev-G	h17 Rev-G	a16 Rev-B	b16 Rev-B	b15 Rev-A
		KernPC16								DesMp.4	DesSp
- 1	114 Rev-R	h14 Rev-B	e20 Rev-D	h24 Rev-I	h18 Rev-D	g14 Rev-E	117 Rev-G	h17 Rev-G	a16 Rev-B	b16 Rev-B	b15 Rev-A
1		KernPC16			Schedule						DesSp
- 1	i14 Rev-R	h14 Rev-B	e20 Rev·D	h24 Rev-I	h18 Rev-D	g14 Rev-E	i17 Rev-G	h17 Rev⋅G	a16 Rev-B	b16 Rev-B	b15 Rev-A
		KernPC16								DesMp.4	DesSp
	i14 Rev-R	h14 Rev-B	e20 Rev-D	h24 Rev-I	h18 Rev-D	g14 Rev-E	117 Rev-G	h17 Rev-G	a16 Rev-B	b16 Rev-B	b15 Rev-A

Font 4 Macros



AmZ8068

ASTB AFLG b

SP7

SP6

SP5

SP4

SP3

SP2

SP1

SPO

SFLG

PAR

MFLGD-

AP7

AP6

AP5

AP4 AP3

AP2

AP1

MP7

MP6

MP5

MP4

MP3

MP2

MPI

-dmps

-dsbs

-dmas

CLK

VCCA MR/W'

C/K'

GNDA

dMCS dscs

MPO

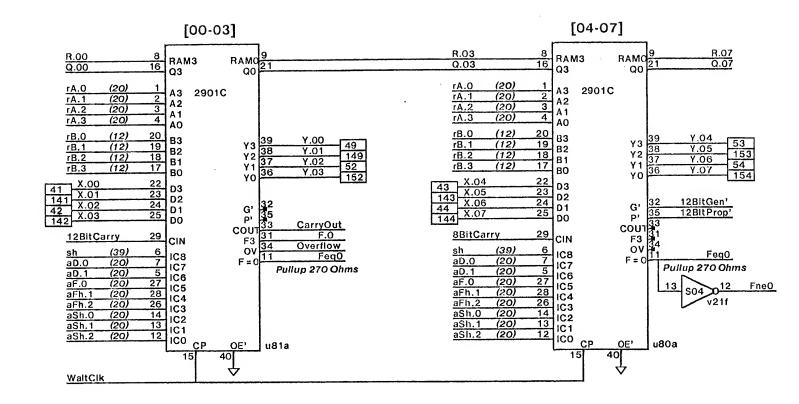
Important Notes:

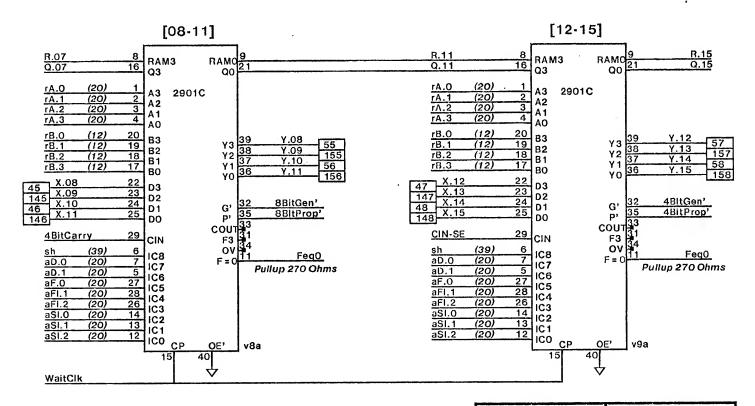
Only macros 0-9 are valid component names and will not be expanded by Analyze. Some of these drawings contain instances of the macros above.

Those that do have a warning on them, see below left.

There is a corresponding CPEDict.analyze that should be prepended to the dictionary chain.

1	PROPRIETARY NOTE ON COVER SHEET APPLIES TO AL)WG	DWG NO.	156P1	2560	SHEET
XEROX	TITLE SCHEMATIC, CPE-FP	- I -	A4	SHEET	02	OF	REV.

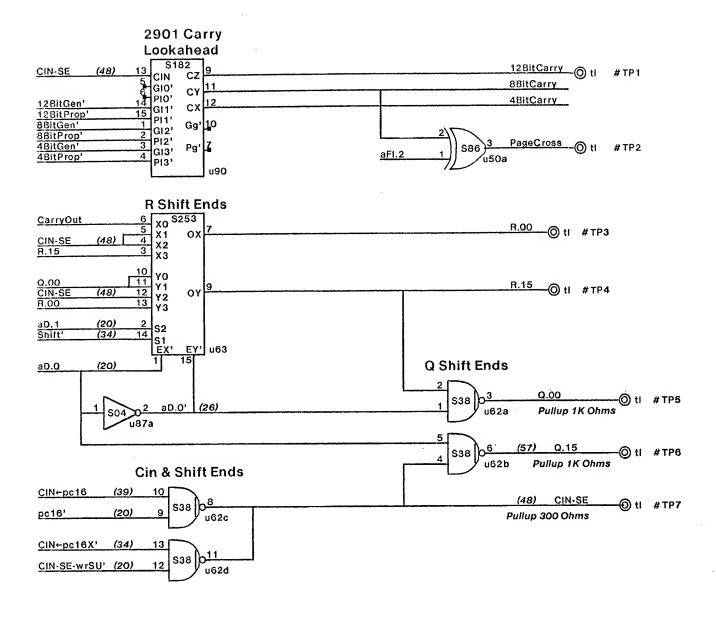




u81p	u80p	v8p	v9p
= GND = VCC	= GND = VCC	=GND =VCC	= GND = VCC
30 10	30 10	30 10	30 10
vcc ♥	\Diamond	\Diamond	\Diamond

2901C Ti	2901C Timing		of 10/0	5/82
Setup sh,,aL Setup aF Setup aS	0 10 30 30			
rA to G,P D to G,P	37 30	D	to Y to Y to Y	40 30 22
rA to Cout D to Cout Cin to Cout	40 30 20	aF	to Y to Y to Y	35 35 25

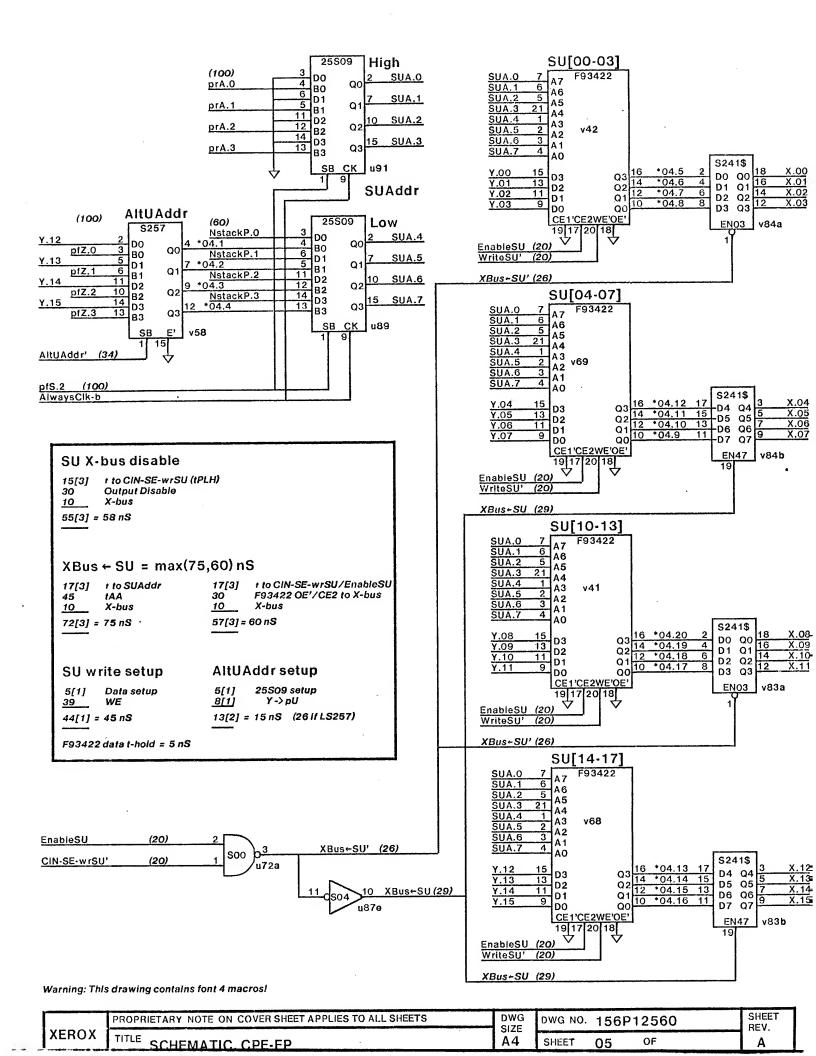
	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
XEROX	TITLE SCHEMATIC, CPE-FP	A4	SHEET	03	OF	A A

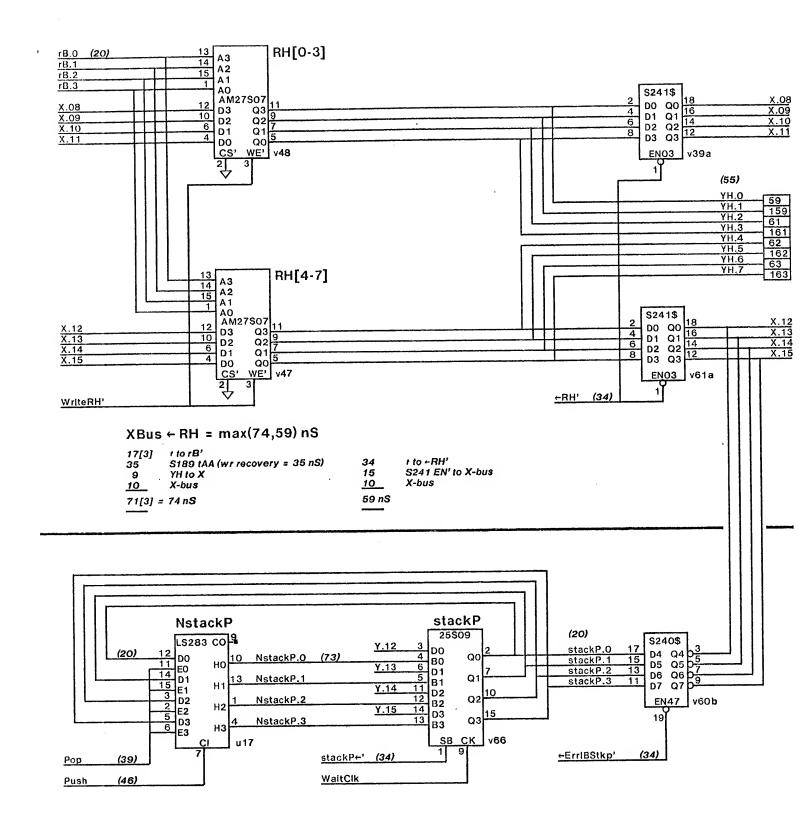


aD.1	Shift'	Shift configuration
0	0	Cout R Q ~CIn
0	1	$Cin \longrightarrow R \longrightarrow Q \longleftarrow \sim Cin$
1	0	Cin — R — Cin
1	1	R

aD.0 = 0 implies right shift

	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
XEROX	TITLE SCHEMATIC, CPE-FP	A4	SHEET	04	OF	A A





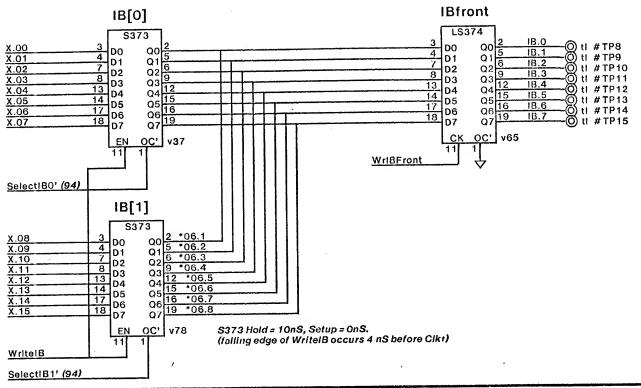
Push Timing

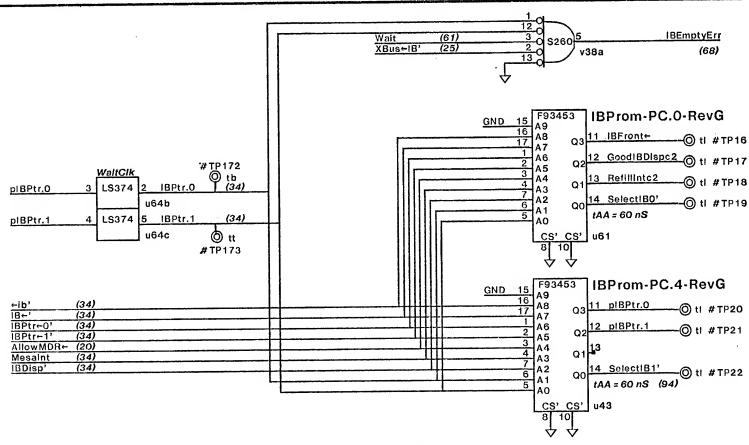
XBus ← stackP = max(59, 38) nS

34 r to +ErrintstackP' 15 S240 EN' to X-bus 10 X-bus

= 38 nS 59 nS

						 ,
	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
XEROX	TITLE SCHEMATIC, CPE-FP	A4	SHEET	06	OF	Α





(Old Proms -- not 2nd sourced) Timing for HM7649 IBProm $IBFront \leftarrow Xbus = (x + 37, x + 36) nS$

IBfront←IB[1]

WriteIB rises 43 nS before end of cycle 43

Difference between S373 "EN to Q" and "Data to Q" =

- 6 18[2] - 13[1] = 6 nS. Data can arrive 6 nS after WritelB goes high. x + 37 nS

Xbus to IB S373 Data to NB 13[1] LS374 setup 20[2]

x+36 nS

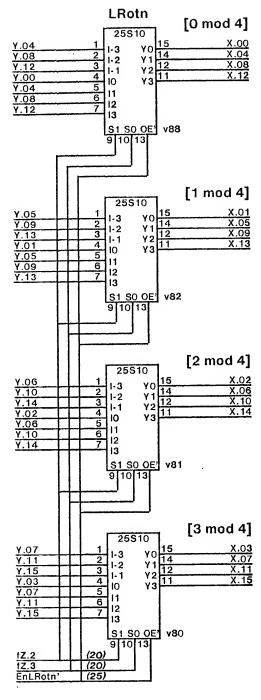
WritelB rises 94 S373 EN to NB 18[2] 20[2] LS374 setup

132[4] = 136 nS

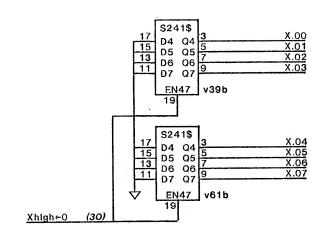
34 t to IBPtr+1' 60 tAA SelectIB1' to NB 18[2] LS374 setup 20[2]

132[4] = 136 nS

	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG	DWG NO.	156P	12560	SHEET
		SIZE		1001		REV.
XEROX	TITLE COURTS ATTO ODE ED	Δ4	SHEET	07	OF	Δ
·	SCHEMATIC, CPE-FP	/	OHLL	01		



fZ.2	fZ.3	Rotate
0	0	Left 0
0	1	Left 12
1	0	Left 8
1	1	Left 4



Xbus ← Y LRotn = max(y + 22, 56, 50) nS

y t to Y bus 12 25\$10 data in to out 10 X-bus y + 22 n\$

25 to EnLRotn' 21 25\$10 OE 10 X-bus

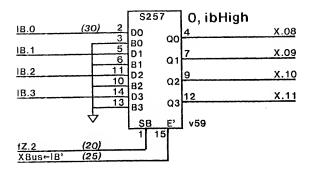
56 n**S**

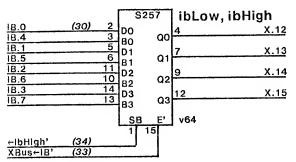
50 n**S**

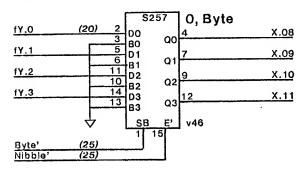
LRotn disable X-bus

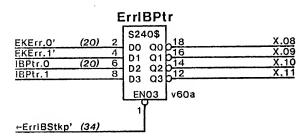
.

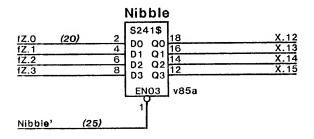
	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P1	2560	SHEET REV.
XEROX	TITLE SCHEMATIC, CPE-FP	A4	SHEET	08	OF	A











IB disable X-bus to XBus+IB' 25 S257 E' to X-bus 14 X-bus 10 49 nS Byte disable X-bus t to Nibble' S257 E' to X-bus 10 X-bus 49 nS Nibble disable X-bus to Nibble' 25 15 S241 EN' to X-bus 10 X-bus 50 nS Xbus \leftarrow IB = max(56,56,59) nS S257 data to Xbus 8 10 X-bus 52[4] = 56 nS t to Xbus+IB' 25 S257 E' to Xbus 21 X-bus 10 56 n**S** to+ibHlgh' 34 S257 SB to Xbus 15 10 X-bus 59 nS Xbus \leftarrow Nibble = max(39, 50) nS 20 t to fZ S241 data to X-bus 9 10 X-bus 39 nS t to Nibble' 25 S241 EN' to X-bus 15 X-bus 10 50 nS Xbus ← Byte = max(38, 56,50) nS 20 S257 data to X-bus 8 10 X-bus 38 nS 25 t to Nibble³ S257 E' to X-bus 21 X-bus 10 56 n**S** t to Byte' 25 S257 SB to Xbus

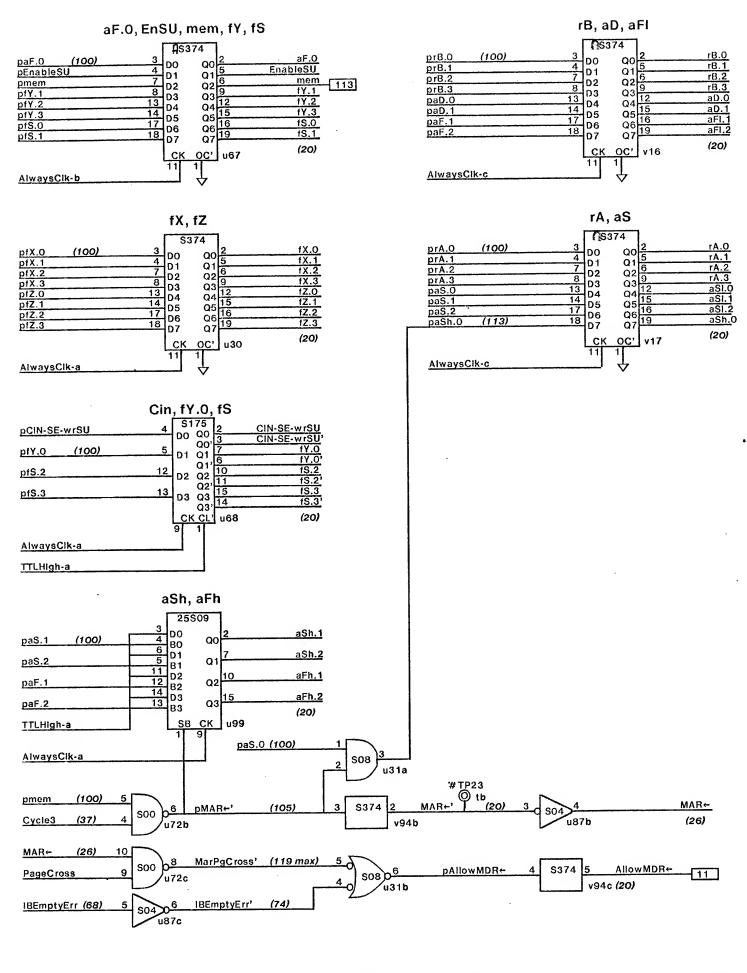
Warning: This drawing contains font 4 macros!

	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156F	12560	SHEET REV.
XEROX	TITLE SCHEMATIC, CPE-FP	A4	SHEET	09	OF	Α

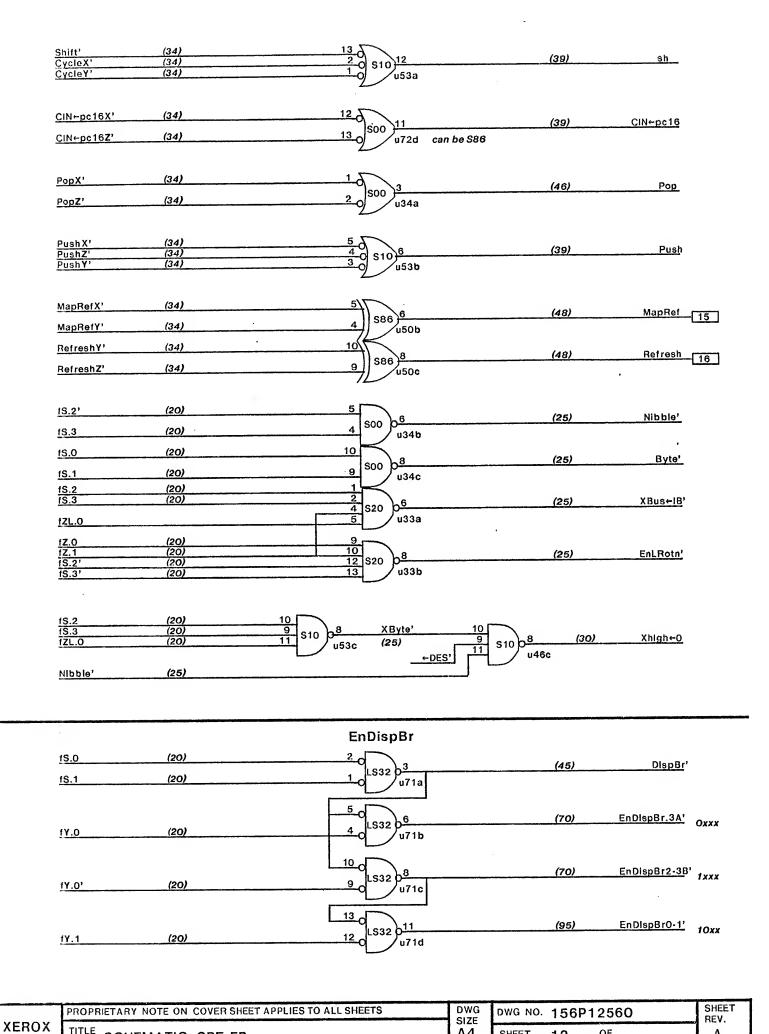
15

10 50 nS X-bus

See stackP timings for ErrlBPtr



						 	•
	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG	DWG NO.	156P	12560	SHEET REV.	l
XEROX	TITLE SCHEMATIC, CPE-FP	SIZE A4	SHEET	10	OF	A	



A4

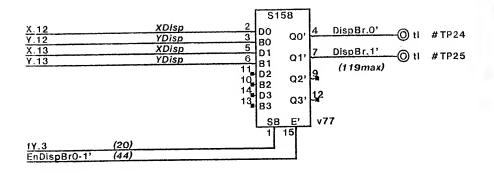
SHEET

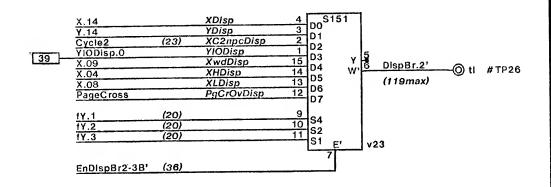
12

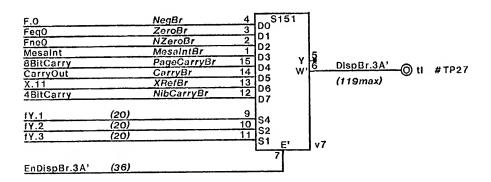
Α

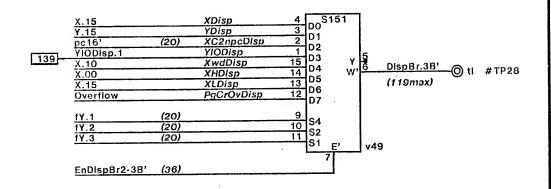
TITLE

SCHEMATIC, CPE-FP

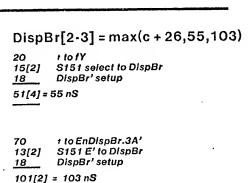








```
DispBr[0-1] = max(c + 32,69,133)
        S151 select to DispBr
24[3]
        DispBr' setup
18
64[3] = 69
        t to EnDispBrO-1'
        S151 E' to DispBr
DispBr' setup
18[2]
18
131[2] = 133 nS
        condition source
12[2]
        S151 data to DispBr
        DispBr' setup
18
c+30[2] = c+32
DispBr Setup
         S00 in to pTC
· 6[1]
        S64 in to pNiA
```

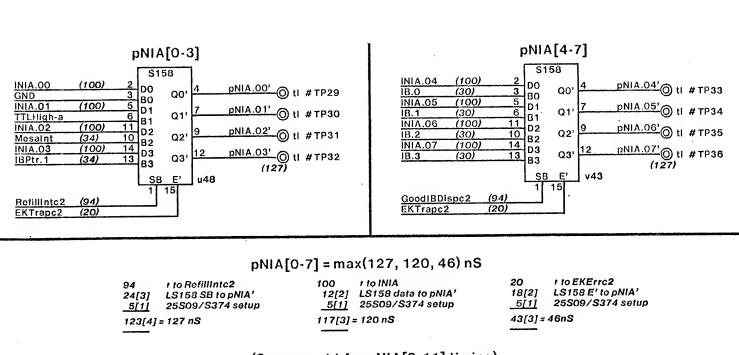


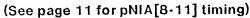
25S09/S374 setup

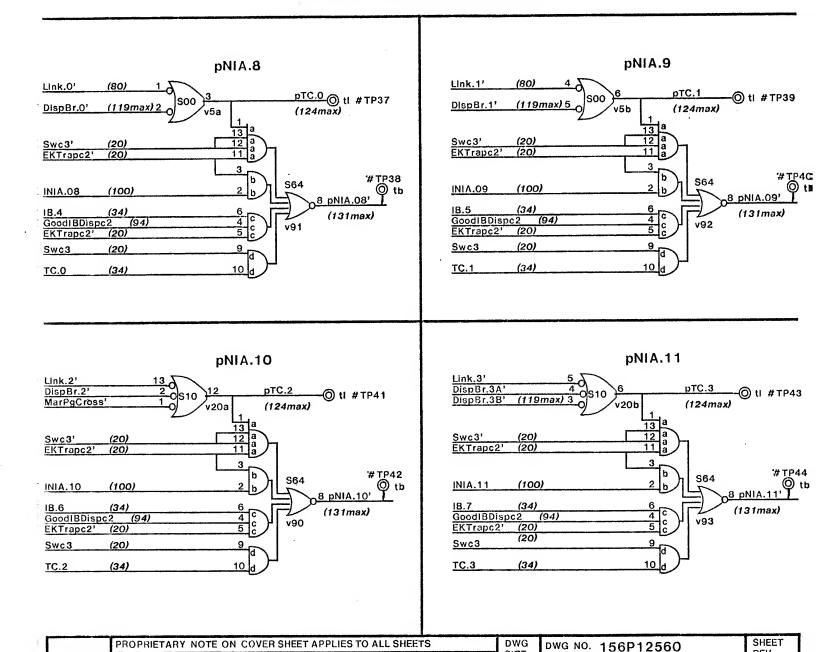
C	condition source
7[1]	S151 data to DispBr
18	DispBr' setup
c+23/	3] = c + 26 nS

5[1]

18 n**S**







XEROX

TITLE

SCHEMATIC, CPE-FP

SIZE

A4

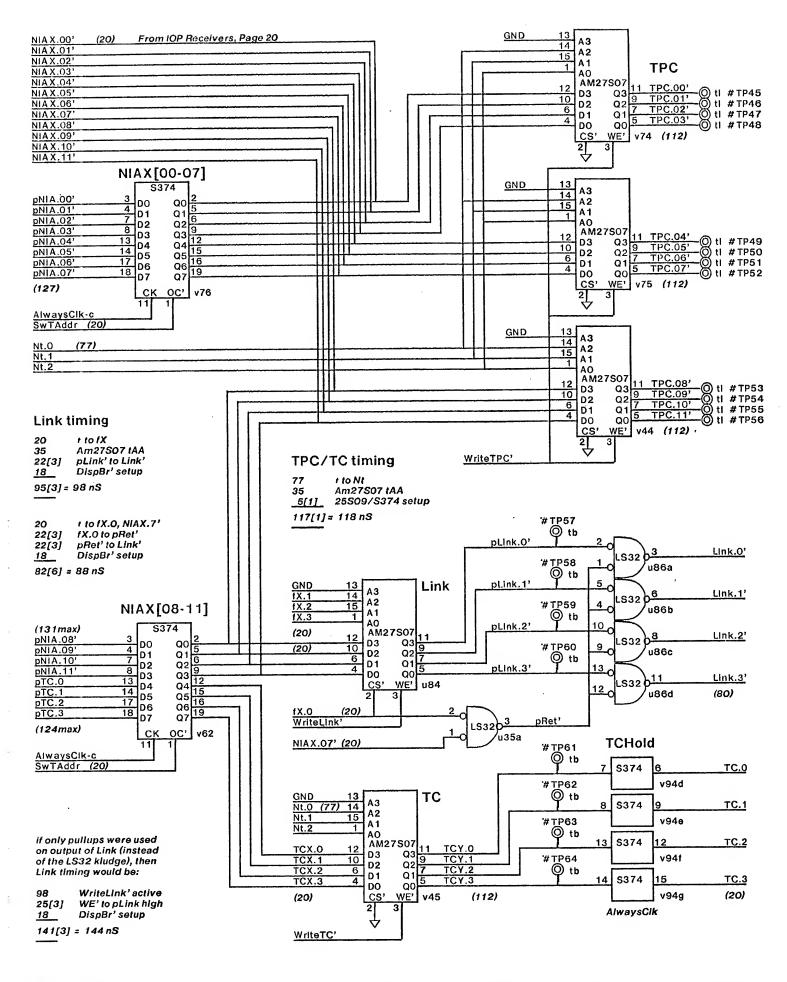
SHEET

REV.

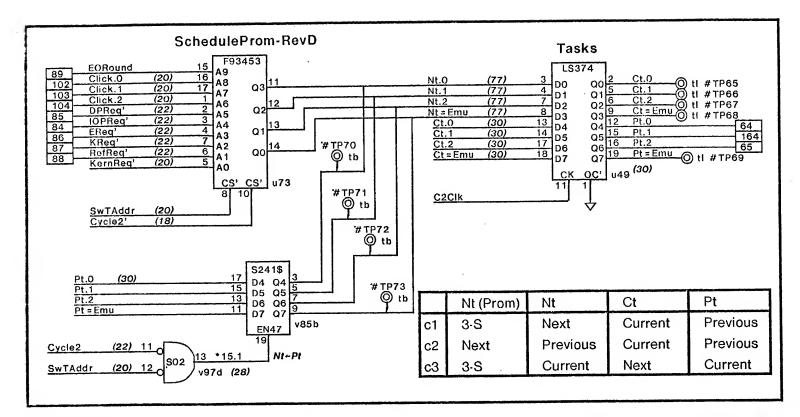
Α

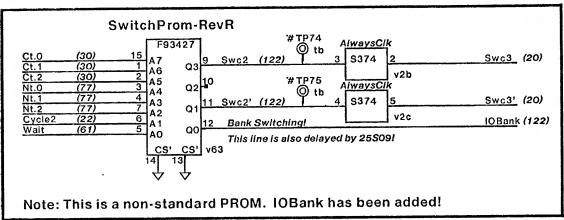
OF

14



ì		PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG	DWG NO.	156P	12560	SHEET REV.
	XEROX	TITLE COURMATIC ORE ED	SIZE A4	SHEET	15	OF	ΛEV.
-			7.	Q I I LL		V	





Task Numbers

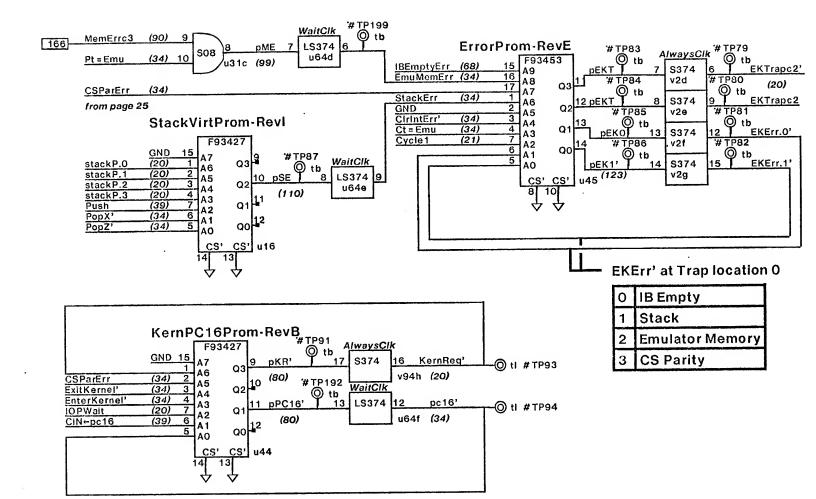
0	Emulator
1	Display/LSEP
2	Ethernet
3	Refresh
4	Disk
5	IOP
6	Control Store R/W
7	Kernel

```
Swc2 timing = max(133,101,101)
                                                                     t to Nt-Pt
                                       t to SwTAddr
                                                              28
22
       t to Kreq'
                               20
                                                                     S241 EN to Nt
                                      F93453 CS' to Nt
                                                              15[2]
       F93453 addr to Nt
                               25
                                      F93427 addr to Swc2
                                                                     F93427 addr to Swc2
                                                              45
       F93427 addr to Swc2
                               45
                                                              10[1] 25S09 SB setup
10[1] 25S09 SB setup
                               10[1] 25S09 SB setup
132[1] = 133 nS
                               100[1] = 101 nS
                                                              98[3] = 101 nS
```

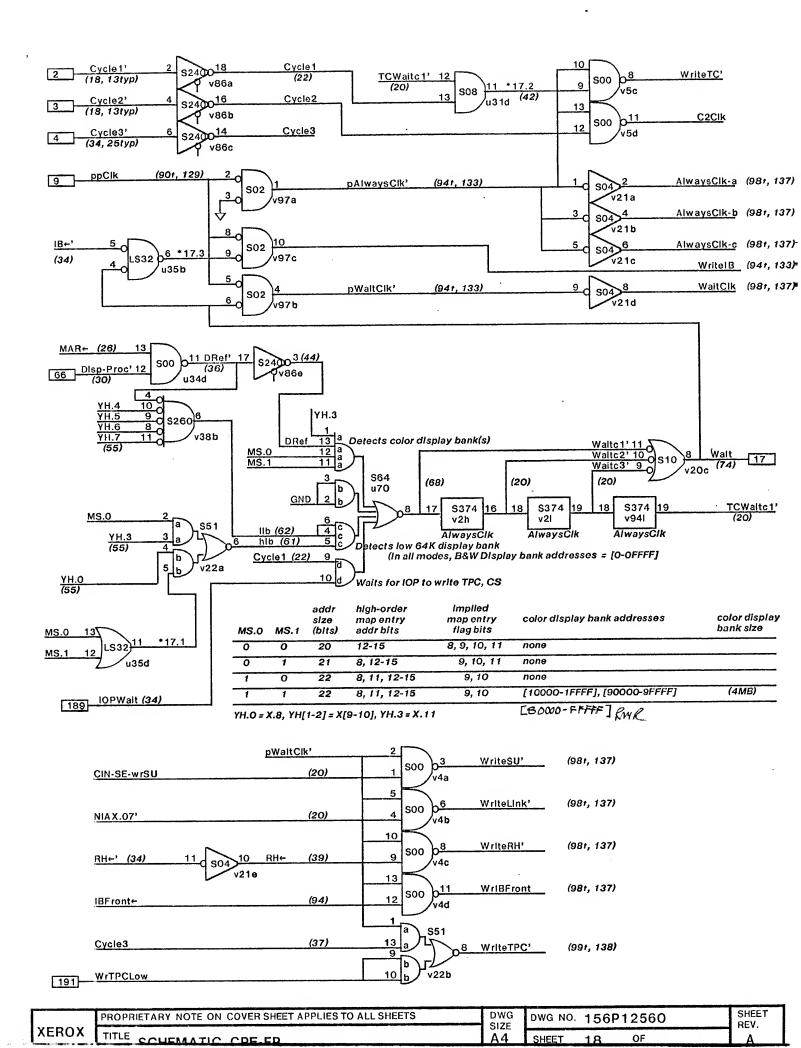
Click Assignment

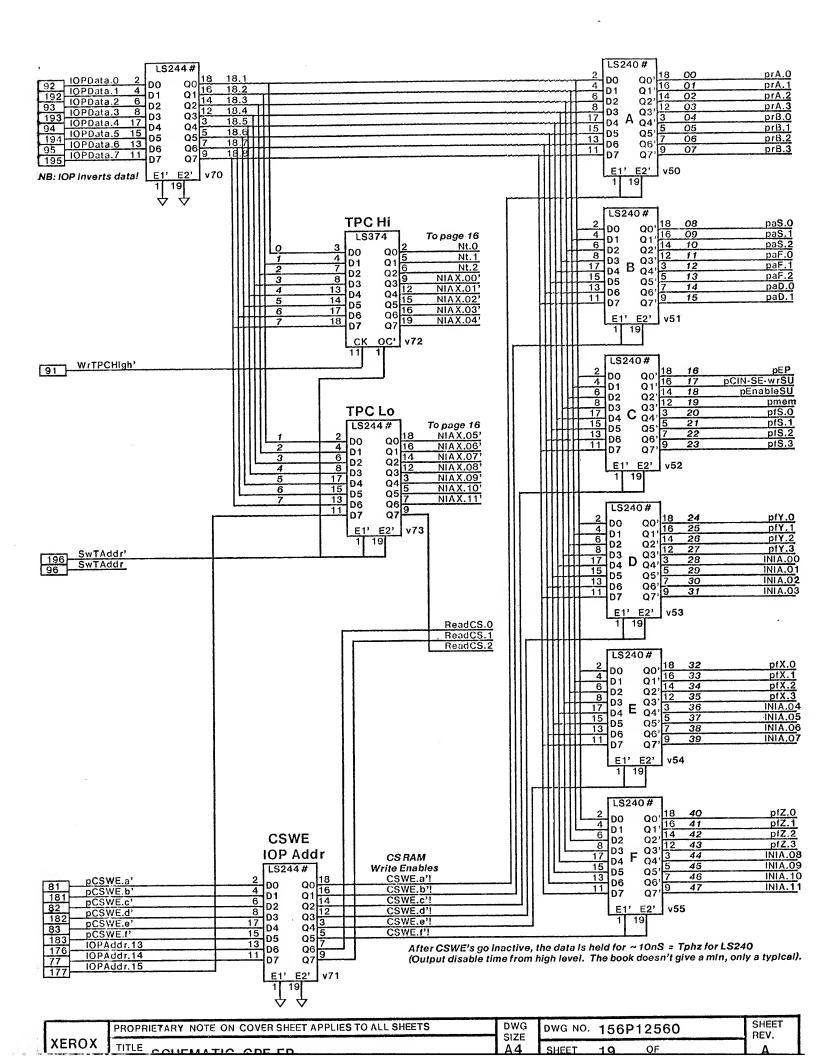
0	Ethernet	
1	Disk	
2	IOP	Notes:
3	Ethernet/Disk	When Disk = SA4000, Click 3 is Ethernet only. When Disk = Trident, Click 3 is Ethernet on even rounds, Trident on Odd rounds (ie, 10-click round)
4	Display/LSEP/Rfrsh	The Display & LSEP-refresh tasks never both use Click 4

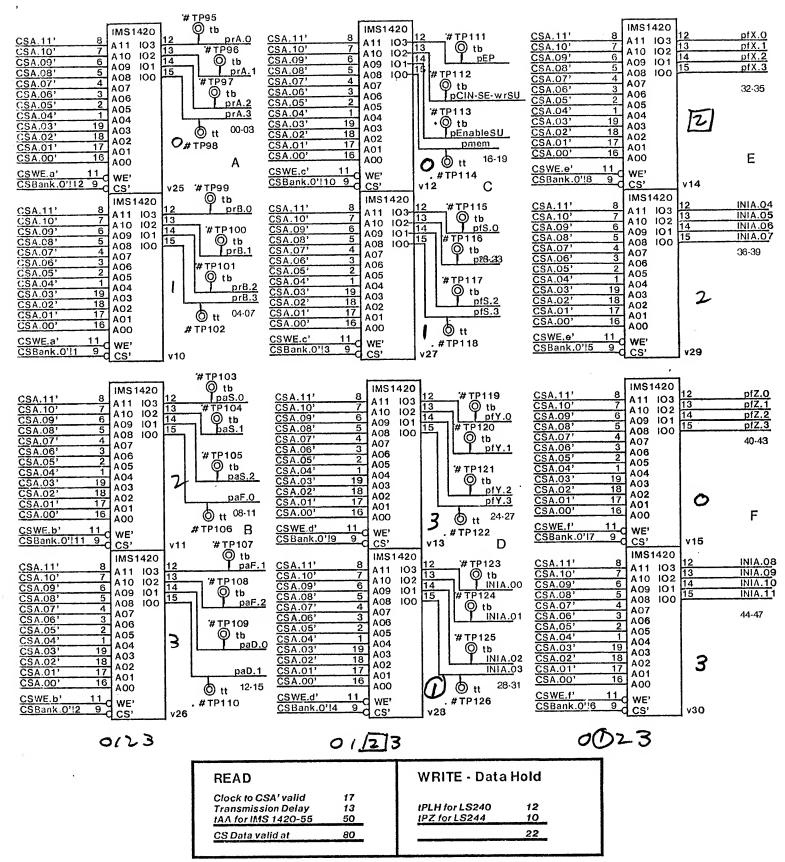
I		PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.	ı
	XEROX	TITLE SCHEMATIC CDE.EP	A4	SHEET	16	OF	Α.	ı
417	THE RESERVE TO STREET, ST.							×



	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
XEROX	TITLE SCHEMATIC CPF-FP	A4	SHEET	17	OF	Α

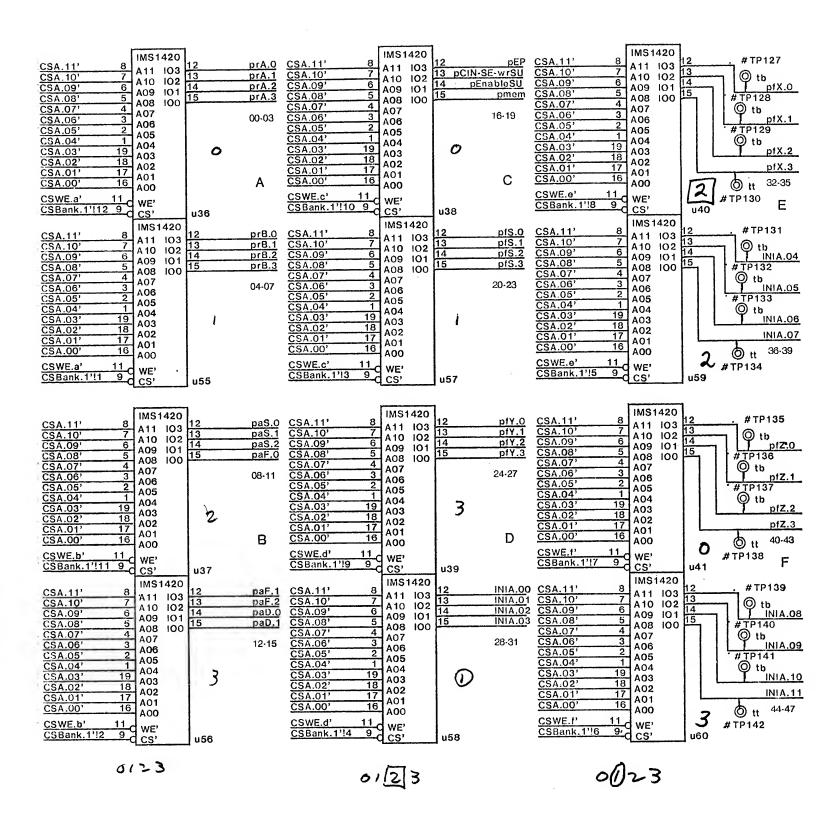




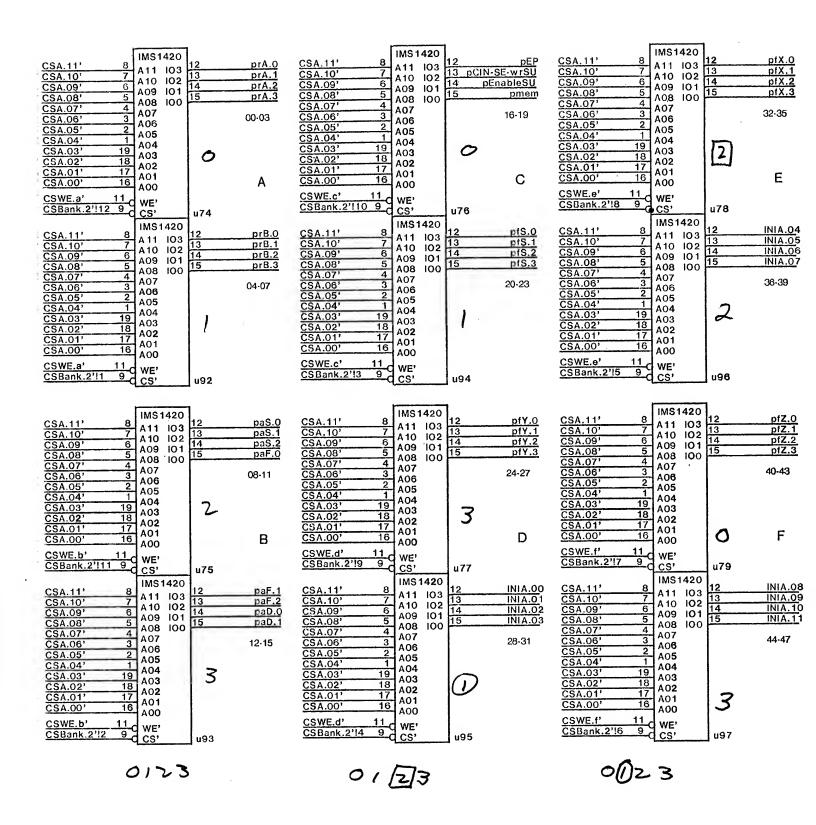


This suggests that IMS 1420-70 would also work without any trouble.

	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
XEROX	TITLE COURTE TO ORE ED	Δ4	SHEET	20	OF	Δ



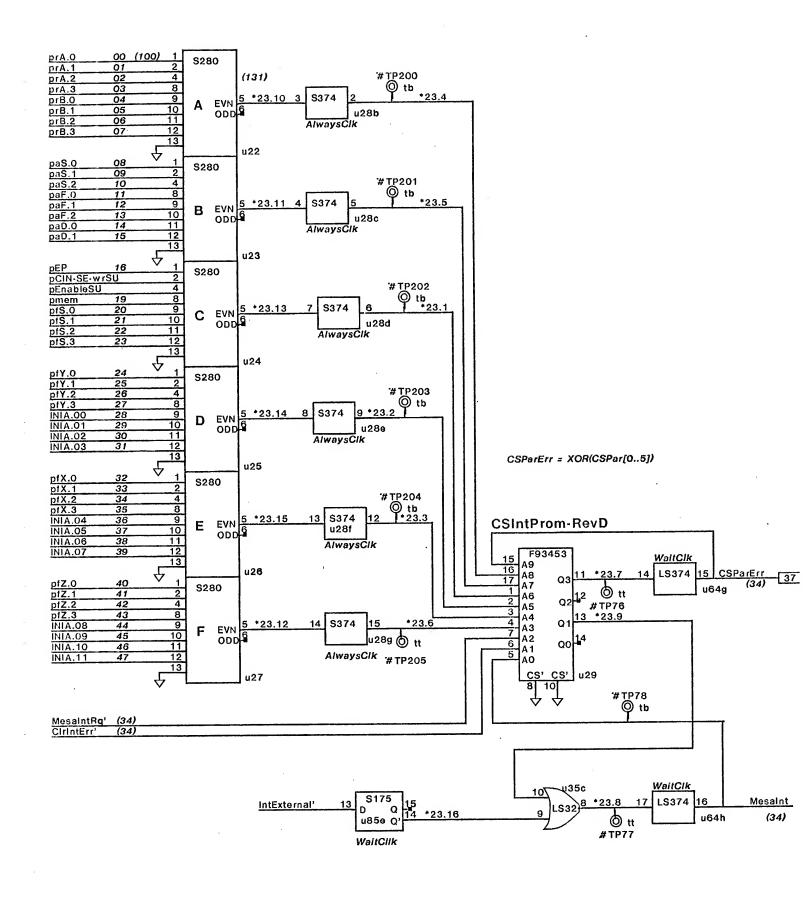
	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG	IDWG NO. ISBN 12581	SHEET		
VEDAY I		SIZE	<u></u>			REV.
XEROX	TITLE SCHEMATIC CDE.ED	Α4	SHEET	21	OF	A



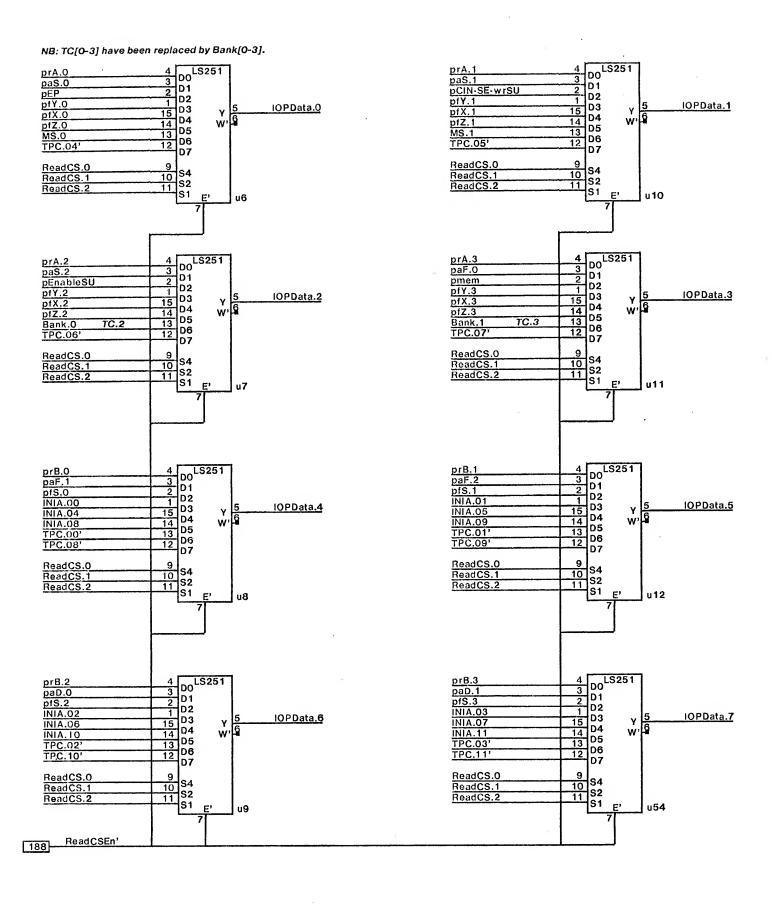
	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
XEROX	TITLE SCHEMATIC CDE.ED	A4	SHEET	22	OF	Α Α

The control Store has been removed to make room for the floating point module.

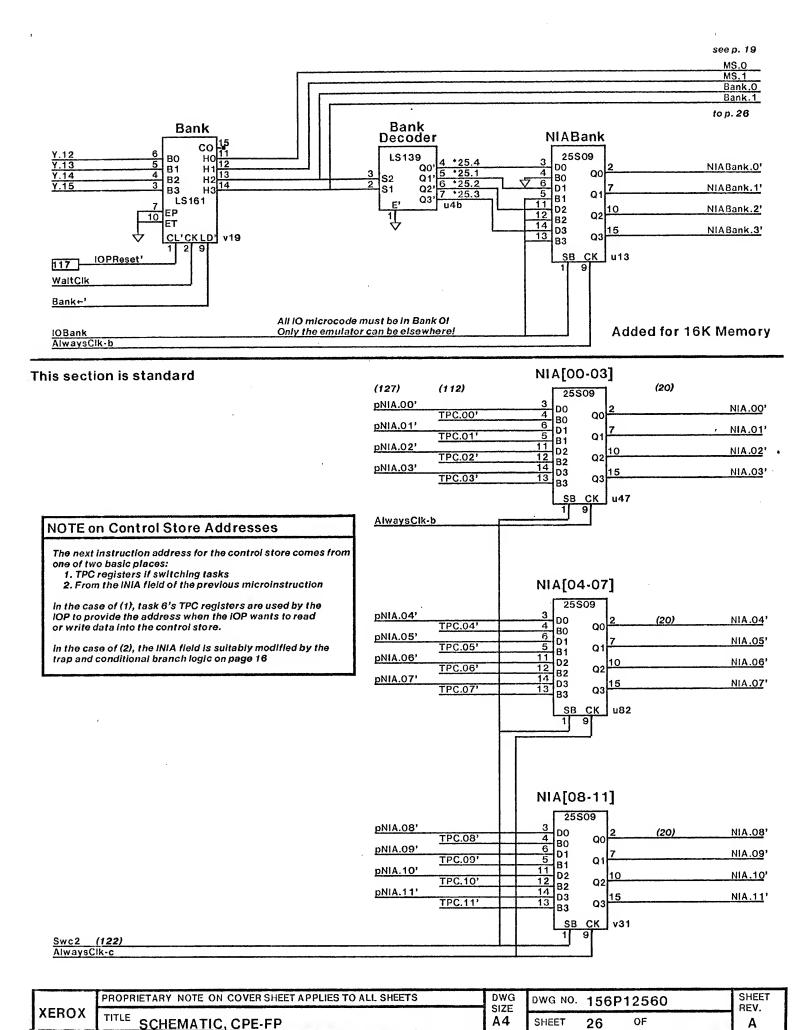
	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG	DWG NO.	156P	12560	SHEET
XEROX	TITLE SCHEMATIC CPE-FP	SIZE A4	SHEET	23	OF	REV.

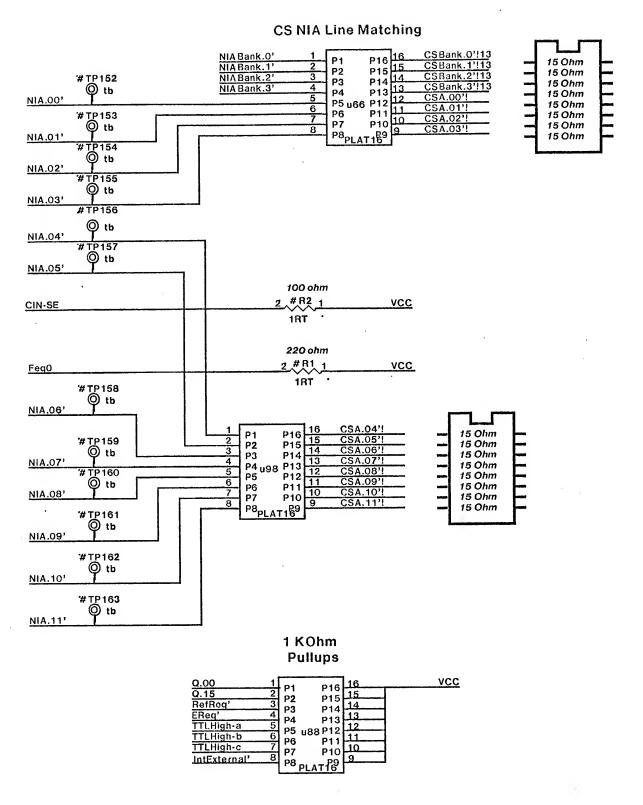


r		PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG	DWG NO.	156P	12560	SHEET
- 1		PROPRIETARY NOTE ON COVERNITUE AT LEGG TO ALL GIVE	SIZE	Diva No.	1308	12300	REV.
1	XEROX	TITLE COUSTANTIO ODE ED				A.E.	1
- 1		SCHEMATIC, CPE-FP	A4	SHEET	24	OF	
	PERSONAL PROPERTY AND PROPERTY	OGNEWATION					



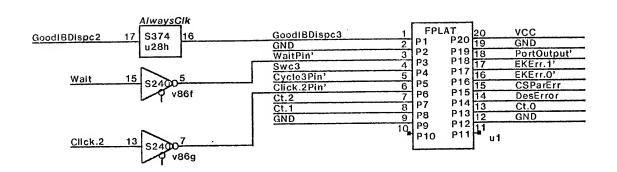
	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO. 156P12560		2560	SHEET REV.
XEROX	TITLE SCHEMATIC CPE-FP	A4	SHEET	25	OF	Α



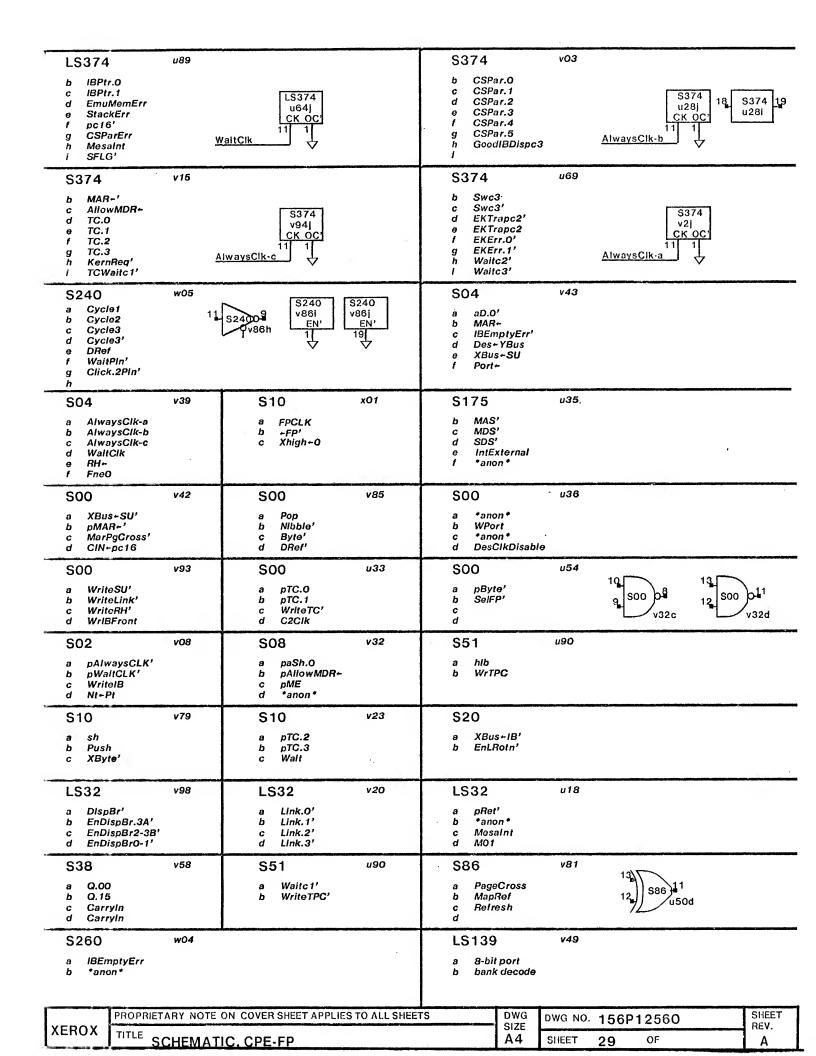


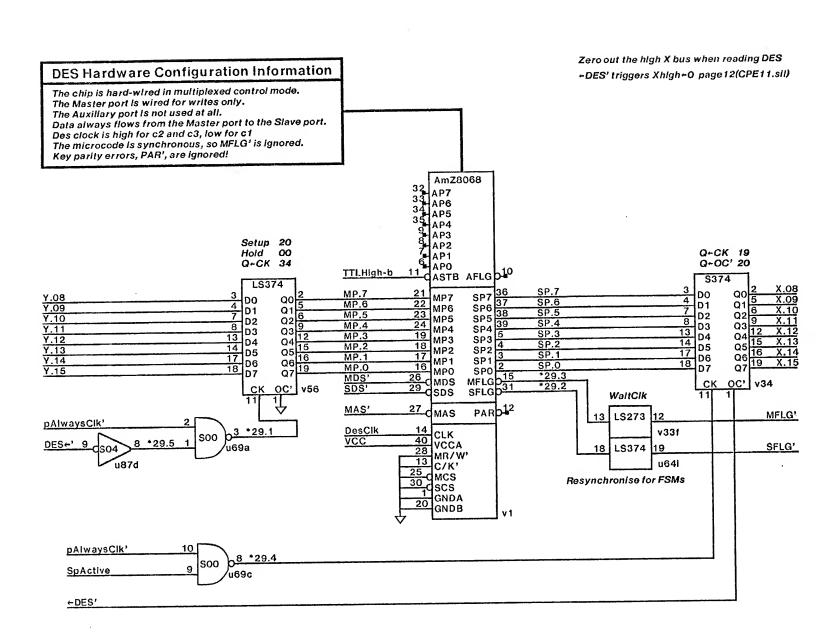
Beckman Resnet DIP 898-1-1K

	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO. 156P12560			SHEET REV.
XEROX	TITLE SCHEMATIC. CPE-FP	A4	SHEET	27	OF	A



GND AlwaysClk-b MS.1 MS.0 Bank.1 Bank,0 CSA.11' CSA.10' CSA.09'	1 2 3 4 5 6 7 8	FPL. P1 P2 P3 P4 P5 P6 P7	P20 P19 P18 P17 P16 P15 P14 P13	20 19 18 17 16 15 14 13	CSA.08' CSA.07' CSA.06' CSA.05' CSA.04' CSA.03' CSA.02' CSA.01' CSA.00'



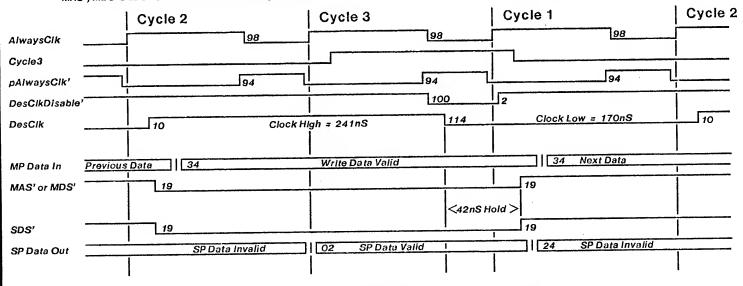


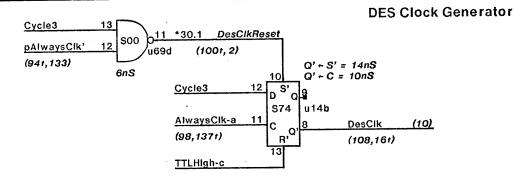
	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	 SHEET REV.
XEROX	TITLE COURMATIC ORE ED	A4	SHEET	30	OF	Α

Clock & Reset Clock width HIGH Clock width LOW Clock Cycle Clock High to MAS'&MDS' High	Reset Hold	AMD # 1 2 3 6	min. 115 115 250 0	max. 50	actual used 241 170 411	Notes
MP and SP Strobe Times MAS' falling to MAS' rising (address) MDS' falling to MDS' rising (data) MDS' rising to MDS' falling SDS' falling to SDS' rising (data read) SDS' rising to SDS' falling Clk falling to MDS' rising Clk falling to SDS' rising	MAS width Low MDS width Low MDS Recovery SDS width Low SDS Recovery MDS Hold SDS Hold	32 44a 46 44a 46 45 45	80 125 125 125 125 20 20	1000 1000 70 70	274 274 137 274 137 42 42	Can't exceed 1000, so have to watch out for WaitClk Can't exceed 1000, so have to watch out for WaitClk This is the difficult bit! See circuitry below. This is the difficult bit! See circuitry below.
MAS Write into Master Port Data Valid to MAS' rising Data Hold after MAS' rising	Address Setup Address Hold	36 37	55 60		268 243	
MDS Write into Master Port Data Valid to MDS' rising Data Hold after MDS' rising	Data Setup Data Hold	47b 48	125 80		268 243	
SDS Read from Slave Port SDS falling to Data Valid SDS rising to Data Invalid SDS falling to SFLG rising	SP Access SP Data Hold SP Flag	49b 50 51	5	120 125		for last byte read

DES Clock Generator Timing

Note: Because of the requirement to hold MDS' and SDS' for 20 to 70 nanoseconds after DesClk falling, we bring DesClk down early in Cycle 3. MAS', MDS' and SDS' follow at the end of Cycle 3.



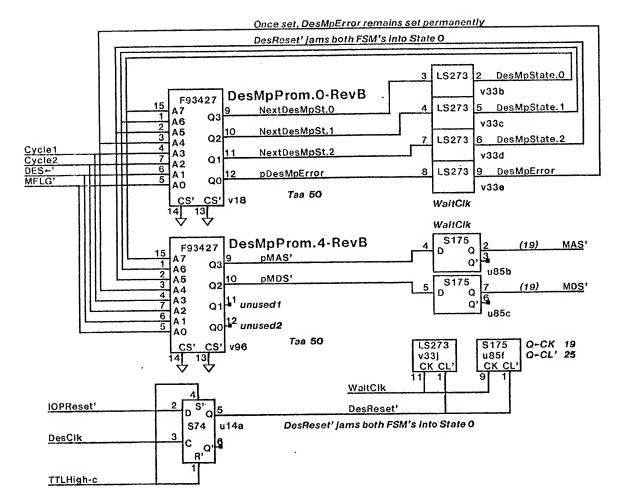


	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS
XEROX	TITLE SCHEMATIC, CPE-FP

DWG

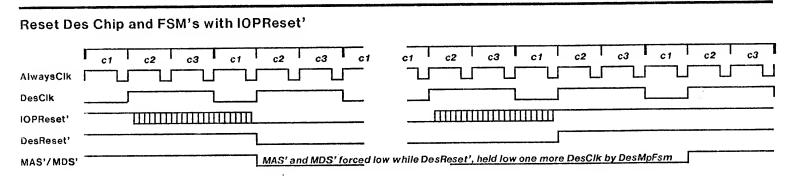
SIZE

Α4

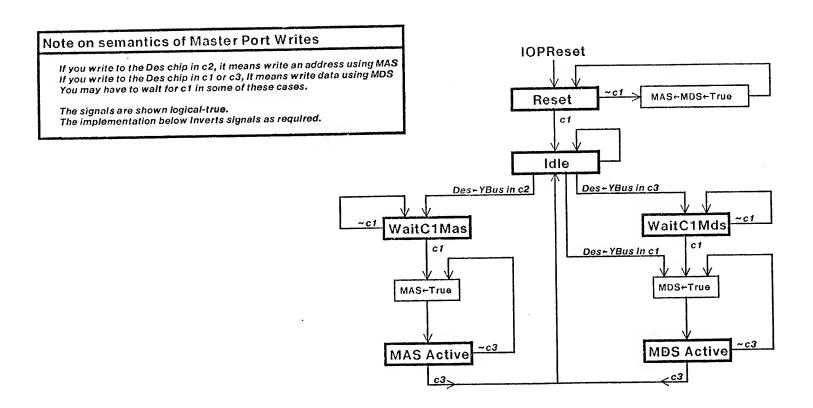


Des Master Port FSM

Des Slave Port FSM Once set, DesSpError remains set permanently DesReset' jams both FSM's Into State 0 WaitClk DesSpProm-RevA LS273 15 DesSpState.0 14 F93427 v33g NextDesSpST.0 LS273 16 DesSpState.1 A6 3 A5 NextDesSpSt.1 v33h Cycle1 Cycle2 Q2 Α4 LS273 19 DesSpError 18 NextDesSpSt.2 ←DES' 01 A2 6 5 v331 SFLG' QC S175 ΑO 12 Q Q u85d DesReset'

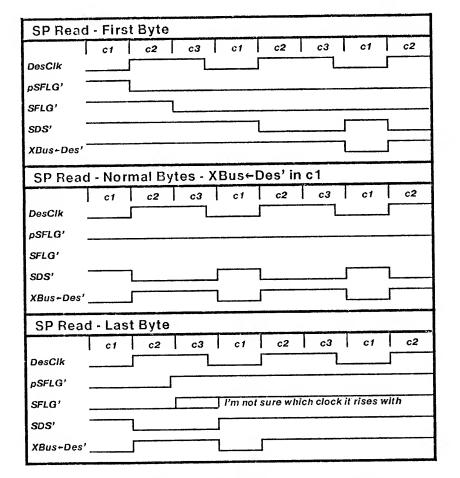


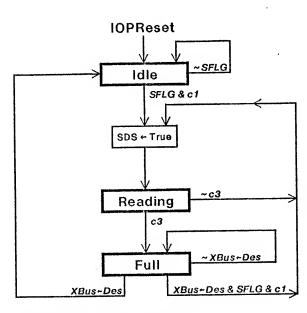
I		PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG	DWG NO.	156P	12560	SHEET REV.
	XEROX	TITLE SCHEMATIC, CPE-FP	SIZE A4	SHEET	32	OF	A



Master Port Finite-State Machine - Error handling of DesMpError signal is not shown

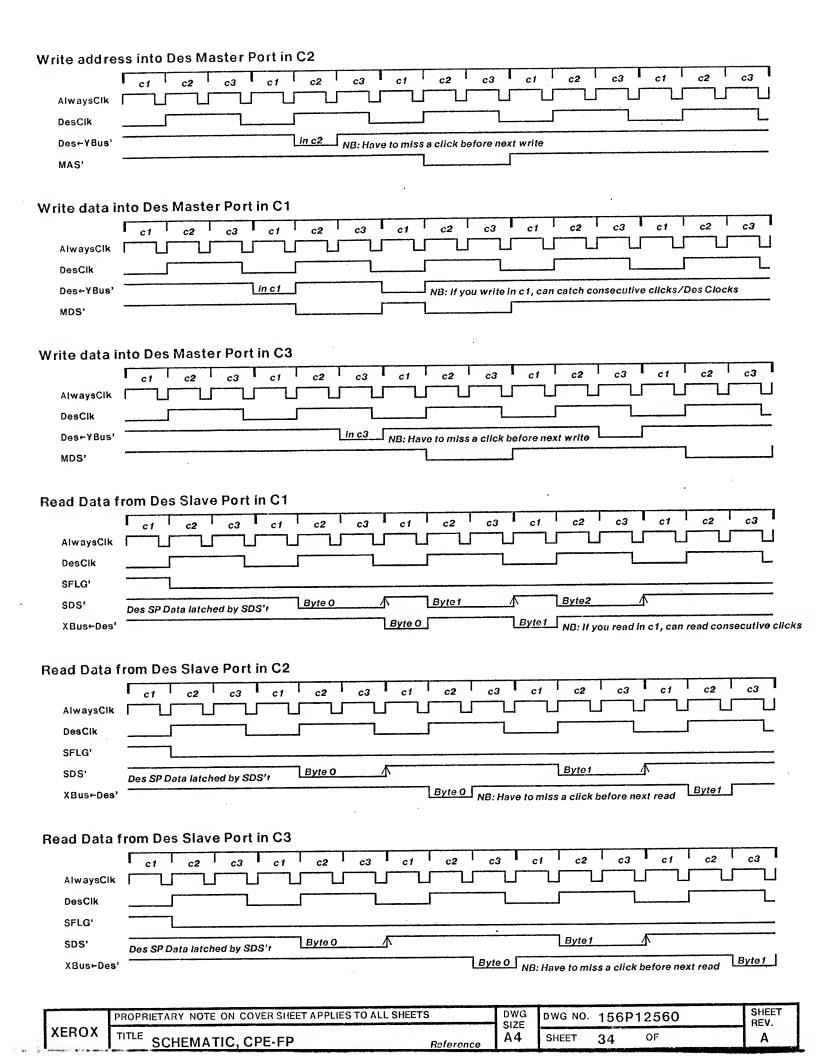
Slave Port Finite-State Machine - Error handling of DesSpError signal is not shown

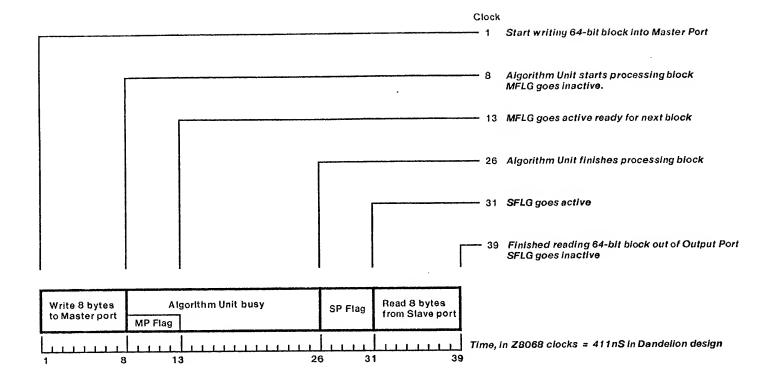




The signals are shown logical-true. The implementation below inverts signals as required.

	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG NO. 156P12560			SHEET REV.
XEROX	TITLE SCHEMATIC CDE-ED	SIZE A4	SHEET	33	OF	Α





WARNING! This data is not guaranteed to be correct!

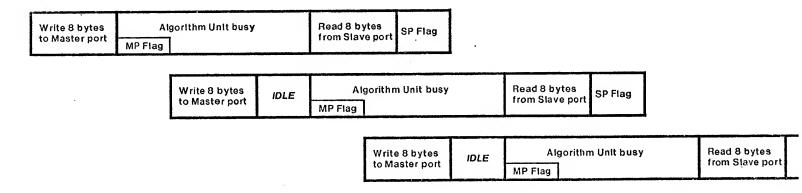
NOTES:

The longest operation in encrypting a block is the time it takes to get the data through the algorithm unit, 18 clocks. Therefore, this is the bottleneck in the pipelining scheme, and the software must aim to keep the Algorithm unit fully busy.

Apart from the first and last blocks, the time taken to encrypt the middle blocks is 18 clocks.

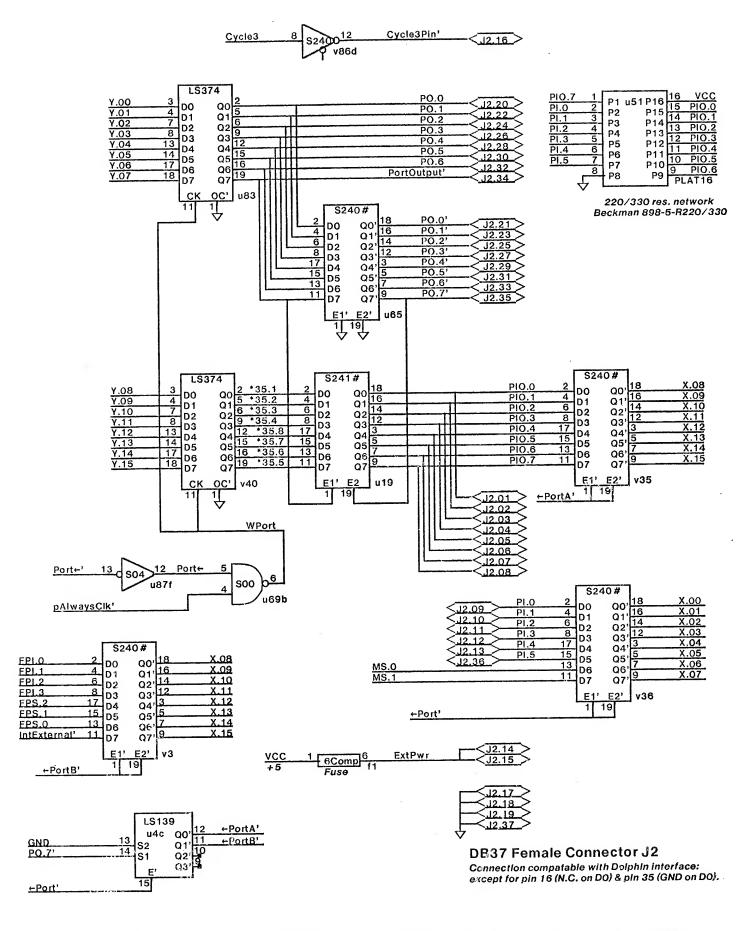
One possible pipelining scheme

WARNING! This data is not guaranteed to be correct!



WARNING! This data is not guaranteed to be correct!

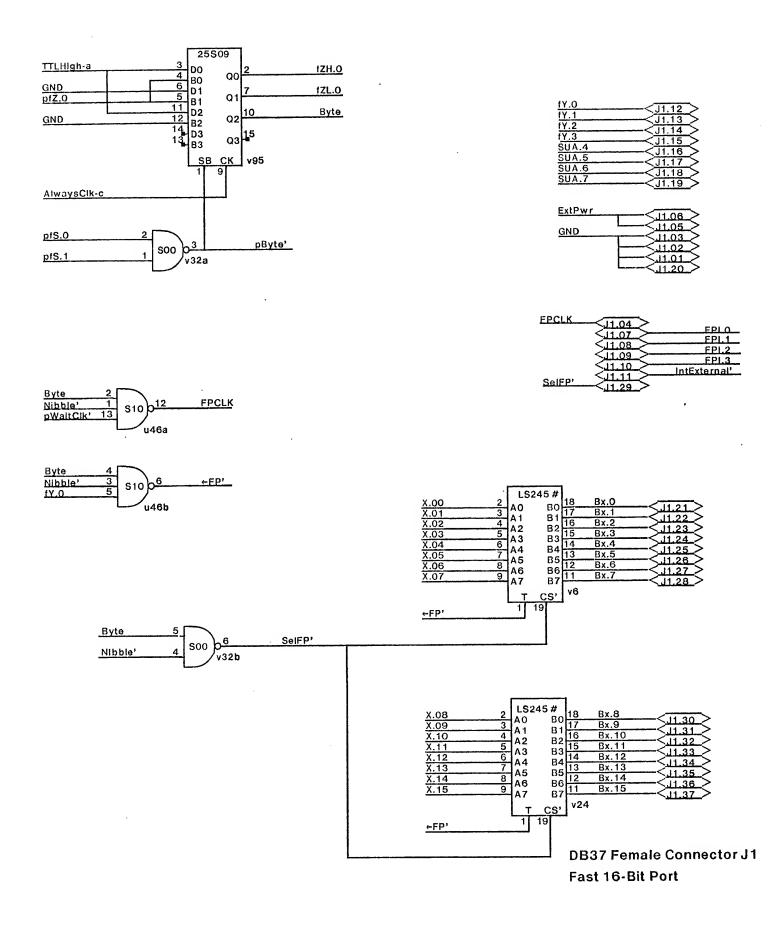
	PROPRIETARY NOTE ON COVER SHEET APPLIES TO	DWG SIZE	DWG NO. 156P12560		2560	SHEET REV.	
XEROX	TITLE SCHEMATIC, CPE-FP	Roference	A4	SHEET	35	OF	A



7	TLAY THE TAXABLE PARTY.	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG	DWG NO.	4565	212560		SHEET
þ				DWG NO.	· 150P12500			REV.
Ę	VEDAY	CALLED AND THE CONTRACTOR OF THE DESCRIPTION OF THE CONTRACTOR OF	SIZE	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN TRANSPORT TO THE PERSON NAMED IN TRAN			1.104/10/20	
-	YEROY	TITLE SCHEMATIC CDE.ED	44	SHEET	36	OF		Ι Α Ι
		SCHEMATIC, CPE-PP			·\$ 7 6.7			

CC						٦
, # C123,	2 #C42 1	2*# C68 1	#C119 2 1	#C4	2*# C28	. #C147
1RT * .	1RT *·	1RT * ·	1RT *·	1RT * ·	1RT T	1RT + . .#C141
. #C45	. # C41	. # C67	. # C118 2 1 1	. # C5 2 1 1RT + .	2 # C93 1	2 1 1
1RT * ·	1RT + ·	1RT * ·	2 1 1RT + ·	1 1	1RT + ·	1RT ·
. # C95	. # C40	. # C66	.#C117 211	.#C7	2**C51 1	. #C148
2 1 1RT * ·	2 1 1RT + ·	1RT +·	2 1 1RT + .	2 1 1RT * ·	1RT + ·	-1RT * -
. # C76	. # C39	. # C86	#C116 .	#C31	# C90	. # C150
$\begin{vmatrix} 2 & 1 & 1 \end{vmatrix}$	2 1 1RT + ·	1RT + ·	2#C116 ₁ 	2 1 1RT * ·	2 1 1RT + ·	2 1 1RT + ·
1RT * -	1 1	. # C85	. # C115	#C6		. #C152
. # C97	. # C38	2 1	2 1 1RT * ·	2 1	2 # C77 1	2 1 -,1
2 1 1RT + ·	1RT * ·	1RT * ·	1RT * ·	1RT T	1RT +	1RT * ·
. # C91	.#C37	. # C84 2 11 1	. # C114 2 1	. # C8	2 # C63 1	#C151 2 1
2 1 1RT + ·	2 1 1RT + ·	2 1 1RT + ·	1RT * ·	2 1 1RT + .	1RT +	1RT + ·
#C92	.#C59	. # C83	.#C53	. # C32	# C30 2 1	. #C137
2 1 1RT + ·	2 1 1RT + ·	2 1 1RT * ·	2 1 1RT + ·	2 1 1RT +	1RT + ·	2 1 1RT + ·
. #C105	. # C58	. # C82	.#C52	. # C29	, #C15,	. #C136
2 1 1RT + ·	2 1 1	2 1 1RT + ·	2 1 1RT +	2 1 1RT + .	2 #C15 ₁ 1RT * .	2 1 1RT + ·
1RT '	1RT + ·		I IN		''''	
.#C78	.#C57	.#C81 2 1	.#C44 2 1	.#C10	2 # C14 1	2 1 1
2 1 1RT + ·	2 1 1RT + ·	2 1 1RT + ·	1RT + .	1RT + ·	1RT +	1RT ·
. # C27	. #C56	.#C104	.#C46	.#C16	2*#C13 1	.#C138
2 1 1RT + ·	2 1 1RT + ·	2 1 1RT + ·	2 1 1RT + ·	2 1 1RT + .	1RT * ·	1RT +
		.#C103	. # C75	. # C18		.#C139
. # C26	. # C55 2 1	$\frac{2}{1}$	2 1 1	2 1 1	2*#C146 1 1RT + .	2 1 1RT + .
1RT + - ·	1RT * ·	1RT + -	1RT +	1RT + .	1RT ·	
. # C25	.#C54 2 11 1	. # C102 2 11 1	.#C73 2 1 1	.#C19	2 ^{'# C132} 1	. #C140 2 1
1RT + ·	1RT * ·	1RT * ·	1RT + -	1RT + ·	1RT + .	1RT +
. # C24	.#C71	. #C101	. #C72	. #C20	. #C144	. #C49
2 1 1RT +	2 1 1RT + .	1RT + ·	1RT + ·	1RT * ·	1RT + .	2 1 1RT + ·
IRI						.#C125
. # C23 2 1 1	.#C70 2 1 1	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.#C89	. # C50	. # C143	2 1 1 1 1 1 1 1 1 1
1RT + .	1RT + ·	1RT + ·	1RT * ·	1RT * ·	1RT + -	1RT *
. # C22	. #C69	. # C99	. # C3	. #C9	. # C142	. #C126
2 1 1	2 1 1	2 1 1RT * ·	1RT + ·	1RT + ·	1RT + .	1RT + ·
1RT + -	18T + .	י ואו	ini '	1111	''''	
•	<u> </u>	↑	 7	, ,	, 	<u>†</u>
	▼	,				

1		PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG NO.	156P	12560	SHEET
-	XEROX	777.5	SIZE	00557	^=		REV.
_	KLITOK	SCHEMATIC CPF-FP	A4	SHEET	37	OF	A

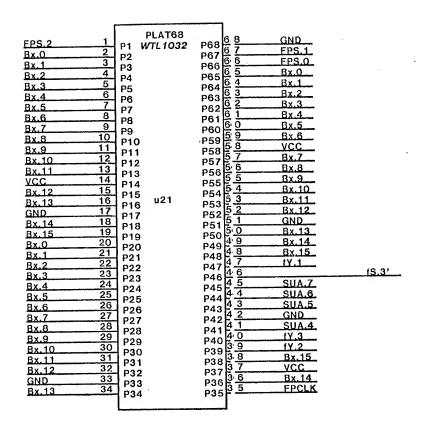


	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO. 156P12560		SHEET REV.	
XEROX	TITLE SCHEMATIC CPE.EP	A4	SHEET	38	OF .	A

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Old contents merged with next page

Floating Point Timing Diagram to be done

			,			 SHEET	ı
	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG	DWG NO.	156P	12560	REV.	ı
	NOT METALL WORLD	SIZE					ı
XEROX	TITLE SCHEMATIC CDE.ED	A4	SHEET	39	OF	А	J_

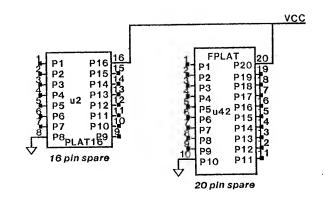


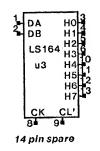
	•	
	01.4700	•
FPS.2 1	PLAT68	P68 6 8 GND EPS.1
Bx.0 2 Bx.1 3	P2 W/L/033	P67 6 7 FPS.1
Bx.1 3	P3	P66 6 FPS.O.
Ry 2 4	P4	BS 6 5 BX.0
Bx.3 5	P5	BA 6 4 BX.1
Bx.4 6	P6	P63 6 3 Bx.2
Bx.5 7	P7	Bx.3
Bx.6 8	P8	P61 6 0 Bx.4
BX./	P9	P60 6 0 Bx.5
Bx.8 10	P10	P50 5 9 Bx.6
Bx.9 11	P11	P59 5 8 VCC
Bx.10 12	P12	P58 5 7 Bx.7
Bx.11 13	P13	P56 6 Bx.8
VCC 14	P14	P55 5 5 Bx.9
Bx.12 15	P15	P54 5 4 Bx.10
Bx.13 16	P16	P53 5 3 Bx.11
CND 1/	P17 u20	P52 5 2 Bx.12
Bx.14 18	P18	P51 5 1 GND
Bx.15 19	P19	P50 5 0 Bx.13
Bx.0 20 Bx.1 21 Bx.2 22	P20	P49 4 9 Bx.14
Bx.1 21	P21	P48 4 8 Bx.15
Bx.2 22	P22	P47 4 7 1Y.1
Bx.3 23	P23	P46 4 6 fS.2
Bx.4 24 Bx.5 25	P24	P45 4 5 SUA.Z
Bx.5 25	P25	P44 4 SUA.6
Bx.6 26 Bx.7 27	P26	P43 4 3 SUA.5
	P27	P42 4 2 GND
D Ω 28	P28	P41 4 1 SUA.4
Bx.9 29 Bx.10 30	P29	P40 4 0 fY.3
Bx.10 30	P30	P39 3 9 1Y.2
Bx.11 31	P31	P38 3 8 Bx.15
Rv 19 32	P32	P68 6 8 GND P67 6 6 FPS.0 P68 6 5 BX.0 P65 6 4 BX.1 P63 6 2 BX.3 P62 6 1 BX.4 P61 6 0 BX.5 P59 8 VCC P58 8 VCC P58 8 VCC P58 5 8 VCC P57 6 BX.8 P57 6 BX.8 P55 5 BX.9 P54 6 BX.8 P55 5 BX.9 P54 6 BX.8 P55 6 BX.8 P55 6 BX.8 P55 7 BX.7 P57 6 BX.7 P57 6 BX.8 P58 8 VCC P5
GND 33	P33	P36 3 6 Bx.14
Bx.13 34	P34	P35 5 FPCLK
	1	

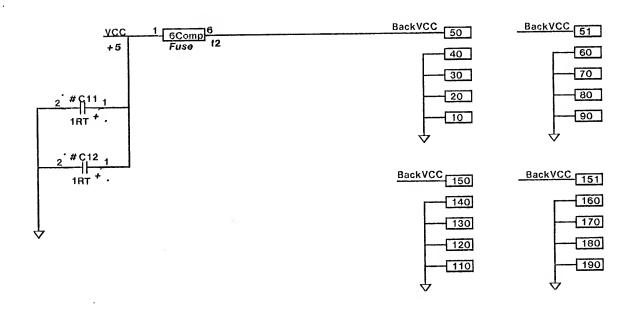
		PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
, ,	XEROX	TITLE SCHEMATIC, CPE-FP	A4	SHEET	40	OF	Α

2#C133 1	2#C113 1	2 ^{:# C64} 1	2 # C2 1 1RT + ·
1RT * · · · · · · · · · · · · · · · · · ·	1RT * · 2 # C98 1 1RT * ·	2 ^{#C1} 1	2 [#] C157
2 [#] C129 1 		1RT + . #C62	1RT * . # C158
2 # C130 1 1RT + ·	2#C153 1 1RT * ·	2 1 1RT + .	1RT *
2 ^{# C127} 1	2*#C43 1 1RT * ·	.#C60 2 1 1RT + .	#C154 2 1 1RT +
2"# C134 1 1RT + .	2 # C80 1 1RT * ·	2#C111 1 1RT + .	2 # C155 ₁ 1RT † ·
2 # C122 1 1 1RT + .	2**C79 1 1RT * ·	2 # C36 1 1RT + .	
2*#C110 1 	2 # C96 1 1RT +	2 # C33 1 1RT + .	
2*# C120 1 1RT * ·	2'#C106 ₁	2 ^{'#} C35 1 1RT + ·	·
2 # C121 ₁ 1RT + .	2 [*] #C94 1 1RT * ·	2*#C34 1 1RT +	
2 # C112 ₁ 1RT * ·	2 ^{'#C87} 1 1RT * ·	2'#C149 1 1RT + .	
2 #C124 ₁	2 # C88 1 1RT + .	.#C21 2	
2 #C131 ₁	2 ^{'# C61} 1 1RT + .	2 #C17 1 1RT + .	
2 # C108 ₁ 1RT + .	2 ^{'#} C65 1	2 # C48 ₁	
2° # C128 ₁	#C47 2 1 1RT + .	2 #C107 ₁	
2: #C109 ₁	2#C145 1 1RT + .	2' #C74 1 1RT + .	
\bigvee	\downarrow	↓	

PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEET	S DWG SIZE	DWG NO.	156P1	2560	SHEET REV.
XEROX TITLE SCHEMATIC CRE-ED	A4	SHEET	41	OF	Α







						
	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
XER	OX TITLE SCHEMATIC, CPE-FP	A4	SHEET	42	OF	A

Comments:

Designator notation notes: u1-99 = U1-99, v0-99 = U100-199, w0-99 = U200-299
 The last item on lines below, preceded by a semicolon (;), is the schematic page number on which the test point, connector or signal information originates.

	3)	Line	with	no	page	number	was	а	continuation	of	tne	previous	iine.
#TP1		.1i	12B	itC	arry		04		#TP153 #TP154			NIA.01' NIA.02'	

,		. •					
#TP1	.1 i	12BitCarry	;04	#TP153	.1i	NIA.01'	; 27
#TP10	.1i	IB.2	; 07	#TP154	.1i	NIA.02'	;27
#TP100	.1i	prB.1	;20	#TP155	.1i	NIA.03'	; 27
#TP101	.1 i	prB.2	;20	#TP156	.1i	NIA.04'	;27
#TP102	.1 i	prB.3	;20	#TP157	.1i	NIA.05'	;27
	.1i	paS.0	;20	#TP158	. 1 i	NIA.06'	;27
#TP103			;20	#TP159	.1i	NIA.07'	;27
#TP104	.1i	paS.1	;20	#TP16	. 1 i	IBFront←	;07
#TP105	.1i	paS.2	;20	#TP160	.1i	NIA.08'	;27
#TP106	.1i	paF.0		#TP161	.1i	NIA.09'	;27
#TP107	.1i	paF.1	;20	#TP162	.1;	NIA.10'	;27
#TP108	.1i	paF.2	;20		.1i	NIA.11'	;27
#TP109	.1 i	paD.0	;20	#TP163			
#TP11	.1 i	IB.3	; 07	#TP17	. 1 i	GoodIBDispc2	;07
#TP110	.1i	paD.1	;20	#TP172	.1i	IBPtr.0	;07
#TP111	.1i	pEP	;20	#TP173	.1i	IBPtr.1	;11
#TP112	.1i	pCIN-SE-wrSU	;20	#TP174	.1i	ExitKernel'	
#TP113	.1i	pEnableSU	;20	#TP175	.1i	EnterKernel'	;11
#TP114	.1 i	pmem	;20	#TP176	.1i	ClrIntErr'	;11
#TP115	.1 i	pfS.0	;20	#TP177	.1i	IBDisp'	;11
#TP116	.1i	pfS.1	; 20	#TP178	.1i	MesaIntRq'	;11
#TP117	.1i	pfS.2	;20	#TP179	.1i	IBPtr←1'	;11
#TP118	.1i	pfS.3	;20	#TP18	.1i	RefillIntc2	;07
#TP119	.1i	pfY.0	;20	#TP180	.1 i	IBPtr←0'	;11
#TP12	.1i	IB.4	;07	#TP181	.1i	PopZ'	;11
#TP120	.1i	pfY.1	;20	#TP182	.1i	←ib'	; 11
#TP120 #TP121	.1;	pfY.2	;20	#TP19	.1i	SelectIB0'	; 07
		•	;20	#TP192	.1i	pPC16'	; 17
#TP122	.1i	pfY.3	;20	#TP199	. 1 i	EmuMemErr	; 17
#TP123	.1i	INIA.00	;20	#TF2	.1i	PageCross	; 04
#TP124	.1 i	INIA.01		#TP20	. 1 i	pIBPtr.0	; 07
#TP125	.1i	INIA.02	;20		.1i	*23.4	;24
#TP126	.1i	INIA.03	;20	#TP200	.1i	*23.5	;24
#TP127	.1i	pfX.0	;21	#TP201			;24
#TP128	.1 i	pfX.1	;21	#TP202	.1i	*23.1	;24
#TP129	.1i	pfX.2	; 21	#TP203	.1i	*23.2	
#TP13	.1i	IB.5	; 07	#TP204	.1i	*23.3	;24
#TP130	.1i	pfX.3	; 21	#TP205	.1i	*23.6	;24
#TP131	.1i	INIA.04	;21	#TP21	.1i	pIBPtr.1	; 07
#TP132	.1i	INIA.05	;21	#TP22	.1 i	SelectIB1'	; 07
#TP133	.1i	INIA.06	;21	#TP23	, 1 i	MAR←'	;10
#TP134	.1i	INIA.07	;21	#TP24	.1i	DispBr.O'	;13
#TP135	.1i	pfZ.O	; 21	#TP25	. 1 i	DispBr.1'	;13
#TP136	.1i	pfZ.1	;21	#TP26	.1i	DispBr.2'	; 13
#TP137	.1i	pfZ.2	;21	#TP27	.1i	DispBr.3A'	;13
#TP138	.1i	pfZ.3	;21	#TP28	.1i	DispBr.3B'	;13
#TP136 #TP139	.1 i	INIA.08	;21	#TP29	. 1 i	pNIA.00'	; 14
		IB.6	;07	#TP3	.1i	R.00	;04
#TP14	.1i		;21	#TP30	.1i	pNIA.01'	; 14
#TP140	.1i	INIA.09	;21	#TP31	.1i	pNIA.02'	; 14
#TP141	.1i	INIA.10		#TP32	.1i	pNIA.03'	;14
#TP142	.1i	INIA.11	;21			pNIA.04'	;14
#TP15	.1i	IB.7	; 07	#TP33	.1i		; 14
#TP152	.1i	NIA.00'	;27	#TP34	.1i	pNIA.05'	, 14

-		PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
	XEROX	TITLE SCHEMATIC, CPE-FP	A4	SHEET	42	OF	Α

						VD1	4.7
#TP35	.1i	pNIA.06'	;14	#TP91	.1i	pKR'	;17
#TP36	.1i	pNIA.07'	;14	#TP93	.1i	KernReq'	; 17
#TP37	.1i	pTC.0	;14	#TP94	.1i	pc16'	;17
#TP38	.1i	pNIA.08'	;14	#TP95	.1i	prA.0	;20
#TP39	.1i	pTC.1	;14	#TP96	.1i	prA.1	;20
#TP4	.1i	R.15	; 0 4	#TP97	.1i	prA.2	;20
#TP40	.1i	pNIA.09'	;14	#TP98	. 1 i	prA.3	;20
#TP41	. 1 i	pTC.2	;14	#TP99	. 1 i	prB.O	;20
#TP42	. 1 j	pNIA.10'	;14	5000		Cu. a 1 a 1 l	;18
#TP43	.1i	pTC.3	;14	E002		Cycle1'	;18
#TP44	.1 j	pNIA.11'	;14	E003		Cycle2'	;18
#TP45	.1 i	TPC.00'	;15	E004		Cycle3'	;18
#TP46	.1i	TPC.01'	;15	E009		ppC1k GND	; 42
#TP47	. 1 i	TPC.02'	;15	E010		A11owMDR←	;10
#TP48	. 1 i	TPC.03'	;15	E011		MapRef	;12
#TP49	.1i	TPC.04'	; 15	E015		Refresh	;12
#TP5	, 1 i	Q.00	;04	E016 E017		Wait	;18
#TP50	.1i	TPC.05'	;15	E020		GND	; 42
#TP51	.1i	TPC.06'	;15	E021		IOPOData←'	;11
#TP52	.1i	TPC.07'	;15 ;15	E022		KOData←'	;11
#TP53	.1i	TPC.08'	;15	E023		EOData←'	;11
#TP54	.1i	TPC.09'	;15	E024		DCtlFifo←'	;11
#TP55	.1i	TPC.10'	;15	E025		DBorder←'	;11
#TP56	.1i	TPC.11'	;15	E026		←TStatus'	;11
#TP57	.1i	pLink.0'	;15	E027		KCmd←'	;11
#TP58	.1i .1i	pLink.1' pLink.2'	;15	E028		POData←'	;11
#TP59	.11	Q.15	;04	E030	•	GND	;42
#TP6 #TP60	.11	pLink.3'	;15	E031		←EIData'	;11
#TP60 #TP61	.11	TCY.0	;15	E032		←KIData'	;11
#TP61 #TP62	.1i	TCY.1	;15	E033		←KTest'	;11
#TP63	.1i	TCY.2	;15	E034		←IOPIData'	;11
#TP64	.1i	TCY.3	;15	E035		EStrobe'	;11
#TP65	.1i	Ct.0	;16	E037		CSParErr	;24
#TP66	.1i	Ct.1	;16	E039		YIODisp.0	;13
#TP67	.1i	Ct.2	;16	E040		GND	;42
#TP68	. 1 i	Ct=Emu	;16	E041		X.00	;03
#TP69	. 1 i	Pt=Emu	;16	E042		X.02	;03
#TP7	. 1 i	CIN-SE	; 0 4	E043		X.04	; 03
#TP70	. 1 i	Nt.O	;16	E044		X.06	;03
#TP71	.1i	Nt.1	;16	E045		X.08	;03
#TP72	.1i	Nt.2	;16	E046		X.10	;03
#TP73	.1i	Nt=Emu	;16	E047		X.12	;03
#TP74	.1i	Swc2	;16	E048		X.14	;03
#TP75	.1i	Swc2'	;16	E049		Y.00	; 03
#TP76	.1i	*23.7	;24	E050		BackVCC	; 42
#TP77	.1i	*23.8	;24	E051		BackVCC	; 42
#TP78	.1i	MesaInt	;24	E052		Y.02	;03
#TP79	.1i	EKTrapc2'	; 17	E053		Y.04	;03
#TP8	.1i	IB.O	;07	E054		Y.06	;03
#TP80	.1i	EKTrapc2	;17	E055		Y.08	;03
#TP81	.1i	EKErr.0'	;17	E056		Y.10	;03
#TP82	.1i	EKErr.1'	;17	E057		Y.12	;03
#TP83	.1i	pEKT	; 17	E058		Y.14	;03
#TP84	.1i	pEKT	;17	E059		YH.O	;06
#TP85	.1i	pEKO'	;17	E060		GND	;42
#TP86	,1i	pEK1'	;17	E061		YH.2	;06
#TP87	.1i	pSE	;17	E062		YH.4	;06
#TP9	, 1 i	IB.1	;07	E063		YH.6	;06

PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS DWG DWG NO. 156P12560	SHEET
SIZE	REV.
XEROX TITLE SCHEMATIC CDE-ED A4 SHEET 43 OF	l A

E064	Pt.O	;16	E 155		Y.09	;03
E065	Pt.2	;16	E156		Y.11	;03
E066	Disp-Proc'	;18	E157		Y.13	;03
E070	GND	; 42	E158		Y. 15	;03 ;06
E077	IOPAddr.14	;19	E159		YH.1 GND	; 42
E080	GND	; 42	E160 E161		YH.3	;06
E081	pCSWE.a'	;19 ;19	E162		YH.5	;06
E082	pCSWE.c' pCSWE.e'	;19	E163		YH.7	;06
E083 E084	IOPReq'	;16	E164		Pt.1	;16
E085	DPReq'	; 16	E166		MemErrc3	; 17
E086	EReq'	; 16	E170		GND	; 42
E087	KReq'	;16	E176		IOPAddr.13	;19
E088	RefReq'	;16	E177		IOPAddr.15 GND	;19 ;42
E089	EORound	;16	E180 E181		pCSWE.b'	;19
E090	GND WallChiah!	;42 ;19	E182		pCSWE.d'	;19
E091 E092	WrTPCHigh' IOPData.0	;19	E183		pCSWE.f'	;19
E092	IOPData.2	;19	E185		C1rDPReq'	;11
E094	IOPData.4	; 19	E186		ClrRefReg'	;11
E095	IOPData.6	; 19	E187		C1rKFlags'	;11
E096	SwTAddr	;19	E188		ReadCSEn'	; 25
E102	Click.0	; 16	E189		IOPWait	;18 ;42
E103	Click.1	;16	E190		GND WrTPCLow	; 18
E104	Click.2	;16	E191 E192		IOPData.1	;19
E110	GND	;42 ;10	E193		IOPData.3	; 19
E113 E114	mem ←MStatus'	;11	E194		IOPData.5	;19
E115	MCt1+'	;11	E195		IOPData.7	;19
E117	IOPReset'	;26	E196		SwTAddr'	;19
E120	GND	; 42				
E121	IOPCt1←'	; 11	J1	.01	GND	;38
E122	KCt1←'	;11	J1	.02	GND	;38 ;38
E123	EICt1←'	;11	J1	.03 .04	GND FPCLK	;38
E124	DCt1←'	;11 ;11	J1 J1	.05	ExtPwr	;38
E126 E127	EOCt1←' ←TIData'	;11	J1	.06	ExtPwr	;38
E127 E128	PCt1←'	;11	J1	.07	FPI.0	;38
E130	GND	; 42	J1	.08	FPI.1	;38
E131	←EIStatus'	;11	J1	.09	FPI.2	;38
E132	←KStatus'	;11	J1	.10	FPI.3	;38
E133	KStrobe'	;11	J1	.11	IntExternal' fY.0	;38 ;38
E134	←IOPStatus'	;11	J1 J1	. 12 . 13	fY.1	;38
E139	YIODisp.1	;13 ;42	J1	.14	fY.2	;38
E140	GND X.01	;03	J1	.15	fY.3	;38
E141 E142	X.03	;03	J1	.16	SUA.4	;38
E143	X.05	;03	J1	. 17	SUA.5	;38
E144	X.07	;03	J1	. 18	SUA.6	;38
E145	X.09	;03	J1	. 19	SUA,7	;38
E146	X.11	;03	J1	.20	GND	;38 ;38
E147	X.13	;03	J1	.21	Bx.0	;38
E148	X.15	;03	J1 J1	.22 .23	Bx.1 Bx.2	;38
E149	Y.01	;03 ;42	J1	.23	Bx.3	;38
E150	BackVCC BackVCC	; 42 ; 42	J1	.25	Bx.4	;38
E151 E152	Y.03	;03	J1	.26	Bx.5	;38
E152 E153	Y.05	;03	J1	.27	Bx.6	;38
E154	Y.07	;03	J1	.28	Bx.7	;38
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Г		PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	SHEET REV.		
	XEROX	TITLE SCHEMATIC, CPE-FP	A4	SHEET	44	OF	Α

```
*04.15: v68.12o, v83.13i
                                                                               ;05
                                     ;38
           .29
                 SelfP'
J1
           .30
                 Bx.8
                                     ;38
J1
                                                  *04.16: v68.10o, v83.11i
                                                                               ;05
                                     ;38
           .31
                 Bx.9
J1
           .32
                 Bx.10
                                     ;38
J1
                                                  *04.17: v41.10o, v83.8i
                                                                               ;05
                                     ;38
                 Bx.11
           .33
J1
                                     ;38
                 Bx.12
J1
           .34
                                                  *04.18: v41.120, v83.6i
                                                                               ;05
                                     ;38
                 Bx.13
J1
           .35
                                     ;38
                 Bx.14
J1
           .36
                                                  *04.19: v41.14o, v83.4i
                                                                               ;05
                                     ;38
                 Bx.15
J1
           .37
                                                           v58.4o, u89.4i;05
                                                  *04.1:
           .01
                 PIO.0
                                     ;36
J2
           .02
                 PIO.1
                                     :36
J2
                                                  *04.20: v41.16o, v83.2i
           .03
                                     ;36
J2
                 PI0.2
           .04
                 PI0.3
                                     ;36
J2
                                                  *04.2:
                                                           v58.7o, u89.5i;05
           .05
                 PIO.4
                                     ;36
J2
                 PI0.5
                                     ;36
J2
           .06
                                                                               ;05
                                                  *04.3:
                                                           v58.9o, u89.12i
                 PI0.6
                                     ;36
           .07
J2
           .08
                 PI0.7
                                     ;36
J2
                                                  *04.4:
                                                           v58.12o, u89.13i
                                                                               ;05
                                     ;36
           .09
                 PI.0
J2
                                     ;36
           .10
                 PI.1
J2
                                     ;36
                                                           v42.16o, v84.2i
                                                                               ;05
           .11
                                                  *04.5:
                 PI.2
J2
                                     ;36
           .12
                 PI.3
J2
                                                  *04.6:
                                                           v42.14o, v84.4i
                                                                               ;05
                 PI.4
                                     ;36
J2
           .13
                                     ;36
           .14
                 ExtPwr
J2
                                                           v42.12o, v84.6i
                                                  *04.7:
                                                                               ;05
                 ExtPwr
                                     ;36
J2
           .15
J2
           .16
                 Cycle3Pin'
                                     ;36
                                     ;36
                                                  *04.8:
                                                           v42.10o, v84.8i
                                                                               ;05
J2
           . 17
                 GND
                                     ;36
J2
           .18
                 GND
                                     ;36
                                                  *04.9:
                                                           v69.10o, v84.11i
                                                                               ;05
           .19
J2
                 GND
           .20
                                     ;36
                 PO.0
J2
                                                           v78.20, v65.3i, v37.20 ;07
                                                  *06.1:
           .21
                 PO.0'
                                     ;36
J2
                                     :36
J2
            .22
                 PO.1
                                                           v78.50, v65.4i, v37.50 ;07
                                                  *06.2:
            .23
                 PO.1'
                                     ;36
J2
                                     ;36
J2
            .24
                 PO.2
                                                           v78.60, v65.7i, v37.60 ;07
                                     ;36
                                                  *06.3:
                 PO.2'
J2
            . 25
                                     ;36
                 PO.3
J2
            .26
                                                  *06.4:
                                                           v78.90, v65.8i, v37.90 ;07
                                     ;36
                 PO.3'
J2
            .27
                                     ;36
J2
            .28
                 PO.4
                                                  *06.5:
                                                           v78.12o, v65.13i, v37.12o ;07
                 PO.4'
                                     ;36
            .29
J2
                                     ;36
J2
            .30
                 PO.5
                                                           v78.150, v65.14i, v37.150
                                                  *06.6:
J2
            .31
                 PO.5'
                                     ;36
J2
            .32
                 P0.6
                                     ;36
                                                  *06.7:
                                                           v78.160, v65.17i, v37.160
            .33
                 PO.6'
                                     ;36
J2
                                      ;36
J2
            .34
                 PortOutput'
                                                           v78.19o, v65.18i, v37.19o
                                                                                         ;07
                                     ;36
                                                  *06.8:
                 PO.7'
J2
            .35
            .36
                 PI.5
                                     ;36
J2
                                                  *15.1:
                                                           v97.13o, v85.19i ;16
                 GND
                                     ;36
            .37
J2
                                                  *17.1:
                                                           u35.11o, v22.5i
*04.10: v69.12o, v84.13i
                                                  *17.2:
                                                           u31.11o, v05.9i
                                                                                :18
*04.11: v69.14o, v84.15i
                                                           u35.6o, v97.9i;18
                                                  *17.3:
*04.12: v69.16o, v84.17i
                             ;05
                                                   *23.10: u22.5o, u28.3i ;24
*04.13: v68.16o, v83.17i
                             ;05
                                                   *23.11: u23.50, u28.4i;24
*04.14: v68.14o, v83.15i
                                                                                ;24
                                                   *23.12: u27.50, u28.14i
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1 1	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE			12560	SHEET REV.
XEROX	TITLE SCHEMATIC, CPE-FP	A4	SHEET	45	OF	Α

```
*35.7: v40.15o, u19.15i ;36
*23.13: u24.50, u28.7i;24
                                                     v40.12o, u19.17i ;36
                                             *35.8:
*23.14: u25.50, u28.8i;24
                                                            u81.29i ;03
                                             12BitCarry:
                                             12BitCarry:
                                                            u90.9o, #TP1.1i
                                                                              :04
*23.15: u26.50, u28.13i
                          ;24
                                             12BitGen': u80.320 ;03
*23.16: u85.14o, u35.9i
                          ;24
                                             12BitGen': u90.14i ;04
       #TP202.1i, u28.6o, u29.1i ;24
                                             12BitProp':
                                                            u80.350 ;03
       #TP203.1i, u28.9o, u29.2i ;24
                                             12BitProp':
                                                            u90.15i ;04
*23.2:
       #TP204.1i, u28.12o, u29.3i;24
                                             18.1:
                                                      v51.2i, v52.2i, v53.2i
                                                                              ;19
*23.3:
                                             18.1:
                                                      v54.2i, v55.2i, v72.3i
                                                      v70.18o, v50.2i
*23.4:
       #TP200.1i, u28.2o, u29.16i;24
                                             18.1:
                                                      v51.4i, v52.4i, v53.4i
*23.5:
       #TP201.1i, u28.5o, u29.17i;24
                                             18.2:
                                                      v54.4i, v55.4i, v72.4i
                                             18.2:
                                                      v73.2i, v70.16o, v50.4i
       #TP20.5.1i, u28.15o, u29.4i;24
                                             18.2:
*23.6:
                                                      v51.6i, v52.6i, v53.6i ;19
                                             18.3:
       #TP76.1i, u29.11o, u64.14i;24
*23.7:
                                                      v54.6i, v55.6i, v72.7i
                                             18.3:
                                                      v73.4i, v70.14o, v50.6i
       #TP77.1i, u35.8o, u64.17i ;24
                                             18.3:
*23.8:
                                                      v51.8i, v52.8i, v53.8i ;19
*23.9:
       u29.13o, u35.10i ;24
                                             18.4:
                                                      v54.8i, v55.8i, v72.8i
                                             18.4:
                                                      v73.6i, v70.12o, v50.8i
       u04.50, u13.6i;26
                                             18.4:
*25.1:
                                                      v51.17i, v52.17i, v53.17i
       u04.6o, u13.11i
                                             18.5:
*25.2:
                          ;26
                                             18.5:
                                                      v54.17i, v55.17i, v72.13i
                                             18.5:
                                                      v73.8i, v70.3o, v50.17i
*25.3:
       u04.7o, u13.14i
                          ;26
                                                      v51.15i, v52.15i, v53.15i
                                             18.6:
                                                                                 ;19
*25.4:
        u04.4o, u13.3i;26
                                                      v54.15i, v55.15i, v72.14i
                                             18.6:
                                                      v73.17i, v70.5o, v50.15i
                                             18.6:
*29.1:
       u69.30, v56.11i
                          ;30
*29.2:
        v01.31o, u64.18i
                                             18.7:
                                                      v51.13i, v52.13i, v53.13i ;19
                                                      v54.13i, v55.13i, v72.17i
                                              18.7:
*29.3:
       v01.15o, v33.13i
                          ;30
                                             18.7:
                                                      v73.15i, v70.7o, v50.13i
                                                      v51.11i, v52.11i, v53.11i ;19
*29.4:
        u69.8o, v34.11i
                          ;30
                                             18.8:
                                              18.8:
                                                      v54.11i, v55.11i, v72.18i
                                              18.8:
                                                      v73.13i, v70.9o, v50.11i
        u87.8o, u69.1i ;30
*29.5:
                                              4BitCarry: v08.29i
                                                                  :03
        u69.11o, u14.10i ;31
*30.1:
                                              4BitCarry: u90.12o
                                                                  :04
                                              4BitCarry: v07.12i
*35.1:
        v40.2o, u19.2i ;36
                                                                  ;13
*35.2:
        v40.5o, u19.4i;36
                                              4BitGen':
                                                         v09.32o
                                                                  :03
                                              4BitGen':
                                                         u90.3i
                                                                  :04
*35.3: v40.6o, u19.6i;36
                                              4BitProp': v09.350
                                                                  ;03
                                              4BitProp': u90.4i
                                                                  ;04
*35.4: v40.9o, u19.8i ;36
*35.5: v40.19o, u19.11i ;36
                                              8BitCarry: u80.29i
                                                                  ;03
                                              8BitCarry: u50.2i, u90.11o
                                                                           ;04
*35.6: v40.16o, u19.13i ;36
                                              8BitCarry: v07.15i
                                                                 ;13
```

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AlwaysClk-b:
                                                                u67.11i
                                                                          ;10
            v08.32o
                      ;03
8BitGen':
                                                 AlwaysClk-b:
                                                                v21.40
                                                                          :18
            u90.1i
                      ;04
8BitGen':
                                                 AlwaysClk-b:
                                                                u13.9i
                                                                          ;26
                                                 AlwaysClk-b:
                                                                u47.9i
                                                                          :26
8BitProp': v08.350
                      ;03
                                                 AlwaysClk-b:
                                                                u05.2i
                                                                          ;28
8BitProp': u90.2i
                      ;04
                                                 AlwaysClk-b:
                                                                u28.11i
                                                                          ;29
aD.0':
        u63.15i, u87.2o, u62.1i;04
                                                 AlwaysClk-c:
                                                                v16.11i
                                                                          ;10
                  ;03
                                                 AlwaysClk-c:
                                                                v17.11i
                                                                          ;10
aD.0:
         u81.7i
                                                 AlwaysClk-c:
                                                                v76.11i
                                                                          ;15
aD.0:
         u80.7i
                  ;03
                                                                v62.11i
                                                                          ;15
        v09.7i
                  ;03
                                                 AlwaysClk-c:
aD.0:
                                                                v21.60
                  ;03
                                                 AlwaysClk-c:
                                                                          ;18
aD.0:
         v08.7i
                                                                u82.9i,
                                                 AlwaysClk-c:
                                                                         v31.9i ;26
         u87.1i, u62.5i, u63.1i ;04
aD.0:
                                                 AlwaysClk-c:
                                                                v94.11i
                                                                          ;29
aD.0:
         v16.120
                  ;10
                                                                v95.9i
                                                                          ;38
                                                 AlwaysClk-c:
aD.1:
         u81.5i
                  ;03
                                                 aSh.0:
                                                          u81.14i
                                                                    ;03
                  :03
aD.1:
         u80.5i
                                                                    ;03
                                                 aSh.0:
                                                          u80.14i
         v09.5i
                  ;03
aD.1:
                                                 aSh.0:
                                                          v17.190
                                                                    ;10
         v08.5i
                  ;03
aD.1:
         u63.2i
                  ;04
aD.1:
                                                                    ;03
                  ;10
                                                 aSh.1:
                                                          u81.13i
aD.1:
         v16.150
                                                                    ;03
                                                 aSh.1:
                                                          u80.13i
        u81.27i
                  :03
                                                 aSh.1:
                                                          u99.20
                                                                    ;10
aF.0:
                  ;03
aF.0:
        u80.27i
                                                                    :03
                  ;03
                                                 aSh.2:
                                                          u81.12i
aF.0:
         v09.27i
         v08.27i
                                                          u80.12i
                                                                    ;03
aF.0:
                  ;03
                                                 aSh.2:
                                                 aSh.2:
                                                          u99.70
                                                                    ;10
aF.0:
        u67.20
                  ;10
        u81.28i
                  ;03
                                                 aS1.0:
                                                          v08.14i
                                                                    :03
aFh.1:
                                                 aS1.0:
                                                          v09.14i
                                                                    :03
aFh.1:
        u80.28i
                  ;03
                                                 aS1.0:
                                                          v17.12o
                                                                    ;10
aFh.1:
        u99.10o
                  ;10
                                                                    :03
                                                          v08.13i
aFh.2:
        u81.26i
                                                 aS1.1:
                  ;03
                                                 aS1.1:
                                                          v09.13i
                                                                    ;03
aFh.2:
         u80.26i
                  ;03
                  ;10
                                                          v17.150
aFh.2:
        u99.150
                                                 a$1.1:
                                                                    ;10
                                                                    ;03
aF1.1:
         v08.28i
                  ;03
                                                 aS1.2:
                                                          v08.12i
                  ;03
                                                 aS1.2:
                                                          v09.12i
                                                                    :03
aF1.1:
         v09.28i
                                                 aS1.2:
                                                          v17.16o
                  ;10
                                                                    ;10
aF1.1:
         v16.16o
                                                             f02.60, E50;42
                  ;03
                                                 BackVCC:
aF1.2:
         v08.26i
                                                 BackVCC:
                                                             E51
                                                                    ;42
                  ;03
aF1.2:
         v09.26i
                                                 BackVCC:
                                                             E151
                                                                    ;42
                  ;04
aF1.2:
         u50.1i
                                                 BackVCC:
                                                             E150
                                                                    ;42
aF1.2:
         v16.19o
                  ;10
                                                 Bank.0: u07.13i
                                                                    ;25
AllowMDR←: u61.3i, u43.3i;07
                                                                              ;26
                                                 Bank.0: u04.3i, v19.13o
AllowMDR←: v94.5o, E11;10
                                                 Bank.0: u05.6i
AltUAddr': v58.1i
                      ;05
AltUAddr': u18.7o
                                                 Bank.1: u11.13i
                                                                    :25
                      ;11
                                                 Bank.1: u04.2i, v19.14o
                                                                              ;26
                                                                    ;28
                                                 Bank.1: u05.5i
AlwaysClk-a:
               u68.9i
                         ;10
AlwaysClk-a:
               u99.9i
                         ;10
                                                 Bank←': v57.10o
               u30.11i
                         ;10
                                                                    ; 11
AlwaysClk-a:
AlwaysClk-a:
               v21.2o
                         ;18
                                                 Bank←': v19.9i
                                                                    ;26
                         ;29
AlwaysClk-a:
               v02.11i
                                                 Bx.0:
                                                          v06.18o,
                                                                    J1.21;38
AlwaysClk-a:
               u14.11i
                         ;31
                                                 Bx.0:
                                                          u21.2i
                                                                    ;40
                                                 Bx.0:
                                                          u21.20i
                                                                    ;40
AlwaysClk-b:
               u91.9i, u89.9i ;05
```

	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG	DWG NO.	156P	12560		HEET
XEROX	TITLE SCHEMATIC, CPE-FP	SIZE A4	SHEET	47	OF	RE	A A

```
u20.3i
                                                                ;40
                                               Bx.1:
        u21.650
                ;40
Bx.0:
                ;40
        u20.650
Bx.0:
                                                       v06.16o, J1.23;38
                                               Bx.2:
        u20.20i ;40
Bx.0:
                                                                ;40
                                                       u21.4i
                                               Bx.2:
                 ;40
Bx.0:
        u20.2i
                                                                ;40
                                                       u21.22i
                                               Bx.2:
                                                       u21.630
                                                                ;40
                                               Bx.2:
       v24.16o, J1.32;38
Bx.10:
                                                                ;40
                                                       u20.630
                                               Bx.2:
        u21.12i
                 ;40
Bx.10:
                                                                ;40
                                               Bx.2:
                                                       u20.22i
                 ;40
Bx.10:
        u21.30i
                                               Bx.2:
                                                       u20.4i
                                                                 ;40
                 ;40
        u21.540
Bx.10:
Bx.10:
        u20.54o
                 ;40
                                                       v06.15o, J1.24;38
                                               Bx.3:
                 ;40
        u20.30i
Bx.10:
                                                                 ;40
                                               Bx.3:
                                                       u21.5i
                 ;40
Bx.10:
        u20.12i
                                                       u21.23i
                                                                ;40
                                               Bx.3:
                                                       u21.62o
                                                                ; 40
                                               Bx.3:
        v24.15o, J1.33;38
Bx.11:
                                                       u20.62o
                                                                ;40
                                               Bx.3:
        u21.13i ;40
Bx.11:
                                                       u20.23i ;40
                                               Bx.3:
                 ;40
Bx.11:
        u21.31i
                                                       u20.5i
                                                                 ;40
                                               Bx.3:
                  ;40
        u21.53o
Bx.11:
                  ;40
Bx.11:
        u20.53o
                                                        v06.14o, J1.25;38
                                               Bx.4:
                  ;40
        u20.31i
Bx.11:
                                                                 ;40
                                               Bx.4:
                                                        u21.6i
        u20.13i
                  ;40
Bx.11:
                                                                ;40
                                               Bx.4:
                                                        u21.24i
                                                                 ;40
                                               Bx.4:
                                                        u21.610
        v24.14o, J1.34;38
Bx.12:
                                               Bx.4:
                                                        u20.610
                                                                 ;40
        u21.15i
                  ;40
Bx.12:
                                                                ;40
                                               Bx.4:
                                                        u20.24i
                  ;40
        u21.32i
Bx.12:
                                               Bx.4:
                                                        u20.6i
                                                                 ;40
                  ;40
        u21.52o
Bx.12:
                  ;40
        u20.52o
Bx.12:
                                                        v06.13o, J1.26;38
                                               Bx.5:
        u20.32i
                  ;40
Bx.12:
                                                                 ;40
                                               Bx.5:
                                                        u21.7i
                 ;40
        u20.15i
Bx.12:
                                                                 ;40
                                               Bx.5:
                                                        u21.25i
                                                                 ;40
                                               Bx.5:
                                                        u21.60o
        v24.13o, J1.35;38
Bx.13:
                                                                 ;40
                                               Bx.5:
                                                        u20.60o
        u21.16i
                  ; 40
Bx.13:
                                                                 ;40
                                                        u20.25i
                                               Bx.5:
                  ;40
Bx.13:
        u21.34i
                                                                 ;40
                                                        u20.7i
                                               Bx.5:
                  ;40
Bx.13:
        u21.50o
                  ;40
Bx.13:
        u20.50o
                                                        v06.12o, J1.27;38
                                               Bx.6:
                 ;40
        u20.34i
Bx.13:
                                                                 ;40
                                               Bx.6:
                                                        u21.8i
        u20.16i
                 ;40
Bx.13:
                                               Bx.6:
                                                        u21.26i
                                                                 ;40
                                               Bx.6:
                                                        u21.59o
                                                                 ;40
        v24.12o, J1.36;38
Bx.14:
                                                                 ;40
                                               Bx.6:
                                                        u20.59o
        u21.18i ;40
Bx.14:
                                                        u20.26i
                                                                 ;40
                                               Bx.6:
                 ;40
        u21.49o
Bx.14:
                                               Bx.6:
                                                        u20.8i
                                                                  ;40
                 ;40
        u21.360
Bx.14:
                 ;40
         u20.360
Bx.14:
                                                        v06.11o, J1.28;38
                                               Bx.7:
                 ; 40
        u20.49o
Bx.14:
                                                        u21.9i
                                                                  ;40
                                               Bx.7:
                 ;40
Bx.14: u20.18i
                                                                  ;40
                                               Bx.7:
                                                        u21.27i
                                                                 ;40
                                                Bx.7:
                                                        u21.57o
         v24.11o, J1.37;38
Bx.15:
                                                Bx.7:
                                                        u20.570
                                                                 ;40
         u21.19i
                  ;40
Bx.15:
                                                Bx.7:
                                                        u20.27i
                                                                  ;40
         u21.48o
                  ;40
Bx.15:
                                                        u20.9i
                                                                  ;40
                                                Bx.7:
                  ;40
         u21.38o
Bx.15:
                  ;40
         u20.38o
 Bx.15:
                                                        v24.18o, J1.30;38
                                                Bx.8:
                  ;40
         u20.48o
 Bx.15:
                                                                 ;40
                                                        u21.10i
                                                Bx.8:
                  ;40
         u20.19i
Bx.15:
                                                        u21.28i
                                                                 ;40
                                                Bx.8:
                                                        u21.560
                                                                 ; 40
                                                Bx.8:
         v06.17o, J1.22;38
 Bx.1:
                                                                 ;40
                                                Bx.8:
                                                        u20.560
 Bx.1:
         u21.3i
                  ;40
                                                        u20.28i
                                                                 ;40
                                                Bx.8:
                  ;40
 Bx.1:
         u21.21i
                                                        u20.10i
                                                                  ;40
                  ; 40
                                                Bx.8:
         u21.64o
 Bx.1:
                  ; 40
         u20.640
 Bx.1:
                                                       v24.17o, J1.31;38
                                                Bx.9:
         u20.21i
                  ;40
 Bx.1:
```

	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
XEROX	TITLE SCHEMATIC, CPE-FP	A4	SHEET	48	OF	Α

```
u52.13o, #TP176.1i
                                                                                      ;11
                                                ClrIntErr':
Bx.9:
        u21.11i
                  ;40
                                                ClrIntErr':
                                                                         ; 17
                                                                u45.3i
                  ;40
        u21.29i
Bx.9:
                                                                         ;24
                                                ClrIntErr':
                                                                u29.6i
        u21.550
                  ;40
Bx.9:
                  ;40
        u20.550
Bx.9:
                                                                v57.70, E187
                                                                                ;11
                                                ClrKFlags':
                  ;40
Bx.9:
        u20.29i
                  ;40
Bx.9:
        u20.11i
                                                 ClrRefReg':
                                                                v57.90, E186
                                                                                ;11
        v46.1i
                  ;09
Byte':
                                                            v25.16i
                                                                      ;20
                                                 CSA.00':
Byte':
        u34.8o
                  ;12
                                                                      ;20
                                                            v10.16i
                                                 CSA.00':
                                                                      ;20
                                                 CSA.00':
                                                            v27.16i
                  ;38
        v95.10o
Byte:
                                                                      ;20
                                                 CSA.00':
                                                             v12.16i
Byte:
         u46.2i
                  ;38
                                                                      ;20
                                                             v14.16i
                                                 CSA.00':
                  ;38
Byte:
         u46.4i
                                                 CSA.00':
                                                                      ;20
                                                             v29.16i
         v32.5i
                  ;38
Byte:
                                                                      ;20
                                                 CSA.00':
                                                             v26.16i
                                                 CSA.00':
                                                             v11.16i
                                                                      ;20
         u49.11i
                  ;16
C2C1k:
                                                                      ;20
                                                 CSA.00':
                                                             v13.16i
        v05.11o
                  ;18
C2C1k:
                                                                      :20
                                                 CSA.00':
                                                             v28.16i
                                                 CSA.00':
                                                             v30.16i
                                                                      ;20
CarryOut:
            u81.330
                     ;03
                                                 CSA.00':
                                                             v15.16i
                                                                      ;20
CarryOut:
            u63.6i
                      :04
                                                 CSA.00':
                                                             u36.16i
                                                                      ;21
CarryOut:
           v07.14i
                     ;13
                                                 CSA.00':
                                                             u55.16i
                                                                       ;21
                                                 CSA.00':
                                                             u57.16i
                                                                       ;21
CIN-SE-wrSU': u62.12i
                         :04
                                                             u38.16i
                                                                       ;21
                                                 CSA.00':
CIN-SE-wrSU': u72.1i
                         ;05
                                                                       ;21
                                                 CSA.00':
                                                             u40.16i
CIN-SE-wrSU': u68.30
                         ;10
                                                 CSA.00':
                                                             u59.16i
                                                                       ;21
                                                 CSA.00':
                                                             u56.16i
                                                                       ;21
CIN-SE-wrSU: u68.20
                         ;10
                                                 CSA.00':
                                                             u37.16i
                         ;18
                                                                       ;21
CIN-SE-wrSU: v04.1i
                                                 CSA.00':
                                                             u39.16i
                                                                       ;21
                                                 CSA.00':
                                                             u58.16i
                                                                       ;21
                  ;03
CIN-SE: v09.29i
                  ;04
                                                 CSA.00':
                                                             u60.16i
                                                                       ;21
CIN-SE: u90.13i
                                                 CSA.00':
                                                             u41.16i
                                                                       ;21
CIN-SE: u63.12i
                  ;04
                                                 CSA.00':
                                                             u74.16i
                                                                       ;22
CIN-SE: u63.5i, u63.4i;04
                                                             u92.16i
                                                 CSA.00':
                                                                       ;22
CIN-SE: u62.4i, u62.11o, u62.8o;04
                                                             u94.16i
                                                                       ;22
                                                 CSA.00':
CIN-SE: #TP7.1i
                                                                       ;22
                                                 CSA.00':
                                                             u76.16i
CIN-SE: #R2.2i
                   ;27
                                                             u78.16i
                                                                       ;22
                                                 CSA.00':
                                                 CSA.00':
                                                             u96.16i
                                                                       ;22
                     ; 04
CIN←pc16:
            u62.10i
                                                                       ;22
                                                 CSA.00':
                                                             u93.16i
            u72.110
                     ;12
CIN←pc16:
                                                             u75.16i
            u44.6i
                      ;17
                                                 CSA.00':
                                                                       ;22
CIN←pc16:
                                                             u77.16i
                                                                       ;22
                                                 CSA.00':
                                                             u95.16i
               u62.13i ;04
                                                 CSA.00':
                                                                       :22
CIN←pc16X':
                                                 CSA.00':
                                                             u97.16i
                                                                       ; 22
CIN←pc16X':
               u15.110
                         ;11
                                                 CSA.00':
                                                             u79.16i
                                                                       ;22
CIN←pc16X':
               u72.12i
                        ;12
                                                 CSA.00':
                                                                       ;27
                                                             u66.120
                                                 CSA.00':
                                                             u05.120
                                                                       ;28
CIN←pc16Z':
               u18.120
                        ;11
CIN←pc16Z':
               u72.13i
                        ; 12
                                                 CSA.01':
                                                             v25.17i
                                                                       ;20
                                                                       ;20
                                                 CSA.01':
                                                             v10.17i
            E102, u73.16i ;16
Click.0:
                                                             v27.17i
                                                 CSA.01':
                                                                       ;20
                                                             v12.17i
                                                 CSA.01':
                                                                       ;20
Click.1:
            E103, u73.17i
                            ;16
                                                 CSA.01':
                                                             v14.17i
                                                                       ;20
                                                 CSA.01':
                                                             v29.17i
                                                                       ;20
                            ;16
            E104, u73.1i
Click.2:
                                                             v26.17i
                                                                       ;20
                                                 CSA.01':
Click.2:
            v86.13i ;28
                                                 CSA.01':
                                                             v11.17i
                                                                       ;20
                                                 CSA.01':
                                                             v13.17i
                                                                       ;20
Click.2Pin': v86.7o, u01.6i;28
                                                 CSA.01':
                                                             v28.17i
                                                                       ;20
                                                 CSA.01':
                                                             v30.17i
                                                                       ;20
ClrDPReq': v57.11o, E185 ;11
                                                 CSA.01':
                                                             v15.17i
                                                                       ;20
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(PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG	DWG NO. 156P12560	SHEET REV.
XEROX	TITLE SCHEMATIC, CPF-FP	SIZE A4	SHEET 49 OF	A A

			•					
		0.4			C	SA.02':	u77.18i	;22
CSA.01':	u36.17i	;21					u95.18i	;22
CSA.01':	u55.17i	;21				SA.02':		
CSA.01':	u57.17i	;21				SA.02':	u97.18i	;22
CSA.01':	u38.17i	;21			C	SA.02':	u79.18i	;22
		;21			(SA.02':	u66.10o	;27
CSA.01':	u40.17i				7	SA.02':	u05.14o	;28
CSA.01':	u59.17i	;21				,SA.UL .	400.140	,
CSA.01':	u56.17 i	;21					0	0.0
CSA.01':	u37.17i	;21			(CSA.03':	v25.19i	;20
CSA.01':	u39.17i				(CSA.03':	v10.19i	;20
						CSA.03':	v27.19i	;20
		;21				SA.03':	v12.19i	;20
	u60.17i						v14.19i	;20
CSA.01':	u41.17i	;21				CSA.03':		
CSA.01':	u74.17i	;22				CSA.03':	v29.19i	;20
CSA.01':	u92.17i	.22			(CSA.03':	v26.19i	;20
		;22			(CSA.03':	v11.19i	;20
					ì	CSA.03':		;20
	u76.17i	;22				CA OOL	v28.19i	;20
CSA.01':	u78.17i	;22				CSA.03':	00 40 1	
CSA.01':	u96.17i	;22				CSA.03':		;20
CSA.01':	u93.17i	.22			(CSA.03':	v15.19i	;20
		;22				CSA.03':	u36.19i	;21
						CSA.03':	u55.19i	;21
	u77.17i	;22				CSA.03':	u57.19i	;21
	u95.17i	;22						21
CSA.01':	u97.17i	; 22				CSA.03':	u38.19i	
	u79.17i	;22				CSA.03':	u40.19i	;21
		;27				CSA.03':	u59.19i	;21
	u05.130	;28				CSA.03':	u56.19i	;21
CSA.01':	u05.130	, 20				CSA.03':		;21
						CSA.03':	u39.19i	;21
	v25.18i	;20						
CSA.02':	v10.18i	;20				CSA.03':	u58.19i	;21
CSA.02':	v27.18i	;20				CSA.03':	u60.19i	;21
CSA.02':	v12.18i	;20				CSA.03':	u41.19i	;21
CSA.02':	v14.18i	;20				CSA.03':	u74.19i	;22
						CSA.03':	u92.19i	;22
	v29.18i	;20					u94.19i	;22
CSA.02':	v26.18i	;20				CSA.03':		, 22
CSA.02':	v11.18i	;20				CSA.03':		;22
CSA.02':	v13.18i	;20				CSA.03':		;22
CSA.02':	v28.18i	;20				CSA.03':	u96.19i	;22
CSA.02':	v20.10:	;20				CSA.03':	u93.19i	;22
CSA.02 .	15 10i					CSA 03':	u75.19i	;22
CSA.02':		;20				CSV 031.	u77.19i	;22
CSA.02':	u36.18i	;21					u95.19i	;22
CSA.02':	u55.18i	;21				CSA.03':		
CSA.02':	u57.18i	;21				CSA.03':	u97.19i	;22
CSA.02':	u38.18i	;21				CSA.03':	u79.19i	;22
CSA.02':	u40.18i	;21				CSA.03':	u66.9o	;27
	u59.18i	;21				CSA.03':	u05.15o	;28
CSA.02':								•
CSA.02':	u56.18i	;21				CCA OAL.	v25.1i	;20
CSA.02':	u37.18i	;21				CSA.04':		
CSA.02':	u39.18i	;21				CSA.04':	v10.1i	;20
CSA.02':	u58.18i	;21				CSA.04':	v27.1i	;20
CSA.02':	u60.18i	; 21				CSA.04':	v12.1i	;20
		;21				CSA.04':	v14.1i	;20
CSA.02':	u41.18i					CSA.04':	v29.1i	;20
CSA.02':	u74.18i	;22				CSA.04':	v26.1i	;20
CSA.02':	u92.18i	;22						
CSA.02':	u94.18i	;22				CSA.04':	v11.1i	;20
CSA.02':	u76.18i	;22		;		CSA.04':	v13.1i	;20
CSA.02':	u78.18i	;22				CSA.04':	v28.1i	;20
CSA.02':	u96.18i					CSA.04':	v30.1i	;20
	u90.181	;22				CSA.04':	v15.1i	;20
CSA.02':						CSA.04':	u36.1i	;21
CSA.02':	u75.18i	;22				CUA. U4 .	400.11	,

	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
XEROX	TITLE SCHEMATIC, CPE-FP	A4	SHEET	50	OF	Α

CSA.04':	u55.1i	;21		CSA.05':	u95.2i	;22·	
	u57.11	;21		CSA.05':	u97.2i		
CSA.04':		;21		CSA.05':			
		;21		CSA.05':		;27	
		;21		CSA.05':		;28	
		;21			400.1.5	,	
	u56.1i	;21	•	CSA.06':	v25.3i	; 2.0	
	u37.1i			CSA.06':		;20	
		;21		CSA.06':		;20	
		;21		CSA.06':		;20	
CSA.04':		;21		CSA.06':	v14 3i	;20	
		;21		CSA.06':	v20 3i	;20	
	u74.1i	;22		CSA.06':	v26.3i	;20	
		;22		CSA.06':		;20	
CSA.04':		;22				;20	
CSA.04':		;22		CSA.06': CSA.06':	V13.31	;20	
CSA.04':	u78.1i	;22		CSA.06':	V20.31	;20	
	u96.1i	;22		CSA.06':	v30.31 v15.3i	;20	
CSA.04':	u93.1i	;22				;21	
CSA.04':		;22		CSA.06':	u36.3i	;21	
CSA.04':		;22		CSA.06': CSA.06':	uoo.oi	;21	
	u95.1i	;22					
CSA.04':	u97.1i	;22		CSA.06':		;21	
CSA.04':	u79.11	;22		CSA.06':		;21	
CSA.04':				CSA.06':	u59.3i	;21	
CSA.04':	u05.16o	;28		CSA.06': CSA.06':	u56.3i u37.3i	;21	
		0_		CSA.06':	u3/.31		
	v25.2i	;20		CSA.06':	u39.3i		
CSA.05':		;20		CSA.06':			
CSA.05':		;20		CSA.06':		;21	
CSA.05':		;20		CSA.06':		;21	
	v14.2i	;20		CSA.06':			
	v29.2i	;20		CSA.06':		;22	
		;20		CSA.06':		;22	
CSA.05':	v11.2i	;20		CSA.06':		;22	
CSA.05':	v13.2i	;20		CSA.06':	u78.3i	;22	,
CSA.05':	v28.2i	;20		CSA.06':			
CSA.05':	v30.2i	;20		CSA.06':			
CSA.05':	v15.2i	;20		CSA.06':			
CSA.05':		;21		CSA.06':		;22	
CSA.05':	u55.2 i	;21		CSA.06':		;22	
CSA.05':	u57.2i	;21		CSA.06':			
CSA.05':	u38.2i	;21		CSA.06':	u79.3i	;22	
CSA.05':	u40.2i	;21		CSA.06':	u98.14o		
CSA.05':	u59.2 i	;21		CSA.06':	u05.18o	;28	
CSA.05':	u56.2i	;21			_		
CSA.05':	u37.2i	;21		CSA.07':	v25.4i	;20	
CSA.05':	u39.2i	;21		CSA.07':	v10.4i	;20	
CSA.05':	u58.2i	;21		CSA.07':	v27.4i	;20	
CSA.05':	u60.2i	;21		CSA.07':	v12.4i	;20	
CSA.05':	u41.2i	;21		CSA.07':	v14.4i	;20	
CSA.05':	u74.2i	;22		CSA.07':	v29.4i	;20	
CSA.05':	u92.2i	;22		CSA.07':	v26.4i	;20	
CSA.05':	u94.2i	;22		CSA.07':	v11.4i	;20	
CSA.05':	u76.2i	;22		CSA.07':	v13.4i	;20	
CSA.05':	u78.2i	;22		CSA.07':	v28.4i	;20	
CSA.05':	u96.2i	;22		CSA.07':	v30.4i	;20	
CSA.05':	u93.2i	;22		CSA.07':	v15.4i	;20	
CSA.05':	u75.2i	;22		CSA.07':	u36.4i	;21	
CSA.05':	u77.2i	;22		CSA.07':	u55.4i	;21	
50 00 .	~ · · · · ·	,					

Г		PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	1000000 130612300		2560	SHEET REV.
	XEROX	TITLE SCHEMATIC, CPE-FP	A4	SHEET	51	OF	Α

CSA.07':	u57.4i	;21		CSA.08':	u97.5i	;22
CSA.07':		;21		CSA.08':	u79.5i u98.12o	;22 ;27
CSA.07':	u40.4i	;21		CSA.08': CSA.08':	u95.120	;28
CSA.07': CSA.07':	u59.4i u56.4i	;21 ;21			400.200	,
CSA.07:	u37.4i	:21		CSA.09':	v25.6i	;20
CSA.07':	u 39.4i	;21		CSA.09':	v10.6i	;20
CSA.07':		;21		CSA.09': CSA.09':	v27.6i v12.6i	;20 ;20
CSA.07': CSA.07':	u60.4i u41.4i	;21		CSA.09':	v12.6i	;20
CSA.07:	u71.41	;21 ;22		CSA.09':		;20
CSA.07':	u92.4i	;22		CSA.09':	v26.6i	;20
CSA.07':	u94.4i	;22		CSA.09':	v11.6i v13.6i v28.6i	;20
CSA.07':	u76.4i	;22		CSA.09': CSA.09':	v13.61 v28.6i	;20 ;20
CSA.07': CSA.07':	u78.4i u96.4i	;22		CSA.09':		;20
CSA.07:	u93.4i	:22	•	CSA.09':	v15.6i	;20
CSA.07':	u75.4i	;22		CSA.09':	u36.6i	;21
	u77.4i u95.4i			CSA.09':	u55.6i	;21
	u95.4i	;22		CSA.09': CSA.09':	u57.6i u38.6i	;21 ;21
- - · ·	u97.4i u79.4i	;22		CSA.09:	u30.01 u40.6i	21
CSA.07': CSA.07':				CSA.09':	u59.6i	21
CSA.07':	u05.19o	;28		CSA.09':	u56.6i	;21
				CSA.09':		
CSA.08':	v25.5i			CSA.09': CSA.09':	u39.6i u58.6i	;21 ;21
		;20 ;20		CSA.09:	u60.6i	;21
CSA.08': CSA.08':	u19 5i	.20		CSA.09':	u41.6i	;21
CSA.08':	v14.5i	;20		CSA.09':	u74.6i	;22
	v29.5i	;20		CSA.09':	u92.6i	;22
	v26.5i	;20		CSA.09': CSA.09':	u94.6i u76.6i	;22
CSA.08': CSA.08':	v11.5i v13.5i	;20 ;20		CSA.09':	u78.6i	;22
CSA.08':	v28.5i	;20		CSA.09':		
CSA.08':	v30.51	;20		CSA.09':		
CSA.08':				CSA.09':	u75.6i	;22
CSA.08':	u36.5i	;21		CSA.09': CSA.09':	u//.61 u95.6i	;22 ;22
CSA.08': CSA.08':	u55.5i	;21		CSA.09':	u97.6i	;22
CSA.08':	u38.5i	;21		CSA.09':	u79.6i	;22
CSA.08':	u40.5i	;21		CSA.09':	u98.110	;27
CSA.08':	u59.5i	;21		CSA.09':	u05.9i	;28
CSA.08': CSA.08':	u56.5i u37.5i	;21 ;21		CSA.10':	v25.7i	;20
CSA.08':	u37.51	;21		CSA.10':	v10.7i	;20
CSA.08':	u58.5i	;21		CSA.10':	v27.7i	;20
CSA.08':	u60.5i	;21		CSA.10':	v12.7i	;20
CSA.08':	u41.5i	;21		CSA.10': CSA.10':	v14.7i v29.7i	;20 ;20
CSA.08': CSA.08':	u74.5i u92.5i	;22 ;22		CSA.10':	v26.7i	;20
CSA.08':	u94.5i	;22		CSA.10':	v11.7i	;20
CSA.08':	u76.5i	;22	•	CSA.10':	v13.7i	;20
CSA.08':	u78.5i	;22		CSA.10':	v28.7i	;20
CSA.08':	u96.5i	;22		CSA.10': CSA.10':	v30.7i v15.7i	;20 ;20
CSA.08': CSA.08':	u93.5i u75.5i	;22 ;22		CSA.10:	u36.7i	;21
CSA.08':	u77.5i	;22		CSA.10':	u55.7i	;21
CSA.08':	u95.5i	;22		CSA.10':	u57.7 i	;21

	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
XEROX	TITLE COMEMATIC COF.ED	A4	SHEET	52	OF	Α

```
u79.8i
                                                                        ;22
CSA.10':
                                                  CSA.11':
            u38.7i
                      ;21
                                                                        ;27
                                                  CSA.11':
                                                              u98.90
            u40.7i
                      ;21
CSA.10':
                                                                        ;28
                                                  CSA.11':
                                                              u05.7i
                      ;21
CSA. 10':
            u59.7i
                      ;21
CSA.10':
            u56.7i
                                                  CSBank.0': v10.9i
                                                                        ;20
CSA.10':
            u37.7i
                      ;21
                                                  CSBank.0': v25.9i
                                                                        ;20
CSA.10':
            u39.7i
                      ;21
                                                                        ;20
                                                  CSBank.0': v26.9i
CSA.10':
            u58.7i
                      ;21
                                                  CSBank.0': v27.9i
                                                                        ;20
                      ;21
CSA.10':
            u60.7i
                                                  CSBank.0': v28.9i
                                                                        ;20
                      ;21
CSA.10':
            u41.7i
                                                  CSBank.0': v14.9i
                                                                        ;20
                      ;22
CSA.10':
            u74.7i
                                                  CSBank.0': v29.9i
                                                                        ;20
CSA.10':
            u92.7i
                      ;22
                                                  CSBank.0': v30.9i
                                                                        ;20
CSA.10':
            u94.7i
                      ;22
                                                                        ;20
                                                  CSBank.0': v15.9i
CSA.10':
                      ;22
            u76.7i
                                                  CSBank.0': v13.9i
                                                                        ;20
                      ;22
CSA.10':
            u78.7i
                                                                        ;20
                                                  CSBank.0': v12.9i
CSA.10':
                      ;22
            u96.7i
                                                  CSBank.0': v11.9i
                                                                        ;20
CSA.10':
                      ;22
            u93.7i
CSA.10':
                      ;22
                                                  CSBank.0': u66.160
                                                                        ;27
            u75.7i
CSA.10':
            u77.7i
                      ;22
                                                                        ;21
                                                  CSBank.1': u55.9i
CSA.10':
            u95.7i
                      ;22
                                                  CSBank.1': u56.9i
                                                                        ;21
CSA.10':
            u97.7i
                      ;22
                                                  CSBank.1': u57.9i.
                                                                        ;21
CSA.10':
            u79.7i
                      ; 22
                                                  CSBank.1': u58.9i
                                                                        ;21
CSA.10':
            u98.10o
                      ;27
                                                  CSBank.1': u59.9i
                                                                        ;21
CSA.10':
                      ;28
            u05.8i
                                                  CSBank.1': u60.9i
                                                                        ;21
                                                  CSBank.1': u41.9i
                      ;20
                                                                        ;21
CSA.11':
            v25.8i
                                                  CSBank.1': u40.9i
CSA.11':
            v10.8i
                      ;20
                                                                        ;21
                                                  CSBank.1': u39.9i
CSBank.1': u38.9i
                                                                        ;21
CSA.11':
            v27.8i
                      ;20
                                                                        ;21
                      ;20
CSA.11':
            v12.8i
                                                  CSBank.1': u37.9i
                                                                        ;21
CSA.11':
                      ;20
            v14.8i
                                                  CSBank.1': u36.9i
                                                                        ;21
CSA.11':
            v29.8i
                      ;20
                                                  CSBank.1': u66.150
                                                                        ;27
CSA.11':
            v26.8i
                      ;20
CSA.11':
            v11.8i
                      ;20
                                                  CSBank.2': u92.9i
                                                                        ;22
CSA.11':
            v13.8i
                      ;20
                                                  CSBank.2': u93.9i
                                                                        ;22
CSA.11':
            v28.8i
                      ;20
                                                                        ;22
                                                  CSBank.2': u94.9i
CSA.11':
            v30.8i
                      ;20
                                                  CSBank.2': u95.9i
CSA.11':
                                                                        ;22
            v15.8i
                      ;20
                                                  CSBank.2': u96.9i
            u36.8i
                                                                        ;22
CSA.11':
                      ;21
                                                  CSBank.2': u97.9i
CSA.11':
                      ;21
                                                                        ;22
            u55.8i
                                                  CSBank.2': u79.9i
CSA.11':
                                                                        ;22
            u57.8i
                      ;21
                                                  CSBank.2': u78.9i
CSA.11':
            u38.8i
                      ;21
                                                                        ;22
                                                  CSBank.2': u77.9i
CSA.11':
            u40.8i
                      ;21
                                                                        ;22
                                                  CSBank.2': u76.9i
CSA.11':
                                                                        ;22
            u59.8i
                      ;21
                                                  CSBank.2': u75.9i
CSA.11':
                                                                        ;22
            u56.8i
                      ;21
                                                  CSBank.2': u74.9i
                                                                        ;22
CSA.11':
            u37.8i
                      ;21
                                                  CSBank.2': u66.140
                                                                        ;27
                      ;21
CSA.11':
            u39.8i
CSA.11':
            u58.8i
                      ;21
                                                  CSBank.3': u66.130
                                                                        ;27
CSA.11':
            u60.8i
                      ;21
                      ;21
CSA.11':
            u41.8i
                      ;22
                                                  CSParErr:
                                                              u44.2i
                                                                        ; 17
CSA.11':
            u74.8i
                                                              u45.17i ;17
u29.15i, u64.15o, E37
CSA.11':
            u92.8i
                      ;22
                                                  CSParErr:
                                                                                         ;24
                                                  CSParErr:
CSA.11':
            u94.8i
                      ;22
                                                  CSParErr:
                                                              u01.150
                      ;22
                                                                        ;28
CSA.11':
            u76.8i
                      ;22
CSA.11':
            u78.8i
                                                              v71.18o, v50.1i, v50.19i
                                                                                             ;19
                                                  CSWE.a':
CSA.11':
                      ;22
            u96.8i
                                                  CSWE.a':
                                                                        ;20
                      ;22
                                                              v25.11i
CSA.11':
            u93.8i
                                                                        ;20
                      ;22
                                                  CSWE.a':
                                                              v10.11i
CSA.11':
            u75.8i
                                                                        ;21
CSA.11':
                      ;22
                                                  CSWE.a':
                                                              u36.11i
            u77.8i
CSA.11':
                                                  CSWE.a':
                                                              u55.11i
                                                                        ;21
                      ;22
            u95.8i
                                                  CSWE.a':
                                                              u74.11i
                                                                        ;22
CSA.11':
            u97.8i
                      ;22
```

	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
XEROX	TITLE SCHEMATIC CPF-FP	A4	SHEET	53	OF	A

```
Ct=Emu: u45.4i
                                                                 ;17
CSWE.a':
           u92.11i ;22
                                               Cycle1': E2, v86.2i ;18
           v71.16o, v51.1i, v51.19i
                                       ; 19
CSWE.b':
           v11.11i
                    ;20
CSWE.b':
                                               Cycle1: u45.7i
                                                                 ;17
                     ;20
CSWE.b':
           v26.11i
                                               Cycle1: v86.18o, u31.13i ;18
                     ;21
CSWE.b':
           u37.11i
                                               Cycle1: u70.9i
                                                                ; 18
                     ;21
           u56.11i
CSWE.b':
                                               Cycle1: v96.4i, v18.4i ;32
CSWE.b':
           u75.11i
                     ;22
                                               Cycle1: v00.3i
                                                                ;32
           u93.11i
                     ;22
CSWE.b':
                                                          u73.10i ;16
                                        ;19
                                               Cycle2':
           v71.14o, v52.1i, v52.19i
CSWE.c':
                                                          E3, v86.4i ;18
                                               Cycle2':
                     ;20
CSWE.c':
           v12.11i
CSWE.c':
           v27.11i
                     ;20
                                               Cycle2: v23.2i
                                                                ;13
                     ;21
CSWE.c':
           u38.11i
                                               Cycle2: v97.11i ;16
                     ;21
CSWE.c':
           u57.11i
                                               Cycle2: v63.6i ;16
Cycle2: v86.16o, v05.12i ;18
CSWE.c':
                     ;22
           u76.11i
                     ;22
CSWE.c':
           u94.11i
                                               Cycle2: v96.7i, v18.7i ;32
            v71.12o, v53.1i, v53.19i
                                       ;19
                                               Cycle2: v00.4i
CSWE.d':
CSWE.d':
           v13.11i
                     ;20
                                               Cycle3': E4, v86.6i ;18
CSWE.d':
            v28.11i
                     ;20
           u39.11i
                     ;21
CSWE.d':
                                               Cycle3: u72.4i
            u58.11i
                     ;21
CSWE.d':
                                               Cycle3: v22.13i
                                                                 ;18
                     ;22
CSWE.d':
            u77.11i
                                               Cycle3: v86.140
                                                                 ;18
                     ;22
CSWE.d':
            u95.11i
                                                                 ;31
                                               Cycle3: u69.13i
                                               Cycle3: u14.12i
                                                                 ;31
            v71.3o, v54.1i, v54.19i;19
CSWE.e':
                                               Cycle3: v86.8i
                                                                 ;36
CSWE.e':
            v14.11i
                    ;20
            v29.11i
                     ;20
CSWE.e':
                                               Cycle3Pin':
                                                              u01.5i
                     ;21
CSWE.e':
            u40.11i
                                               Cycle3Pin':
                                                              v86.120, J2.16;36
                     ;21
CSWE.e':
            u59.11i
                     ;22
CSWE.e':
            u78.11i
                                                                    :11
                                                           u15.120
                                               CycleX':
            u96.11i
                     ;22
CSWE.e':
                                                                    ;12
                                               CycleX':
                                                           u53.2i
            v55.1i, v71.5o, v55.19i;19
CSWE.f':
                                               CycleY':
                                                           u52.70
                                                                     :11
CSWE.f':
            v15.11i
                     ;20
                                               CycleY':
                                                           u53.1i
                                                                     ;12
CSWE.f':
            v30.11i
                     ;20
CSWE.f':
                     ;21
            u41.11i
                                               DBorder←': v89.15o, E25
CSWE.f':
                     ;21
            u60.11i
CSWE.f':
            u79.11i
                     ;22
                                                              v67.90, E24;11
                                               DCtlFifo←':
CSWE.f':
            u97.11i ;22
                                               DCt1←': v67.7o, E124
                                                                        ;11
         u49.20, #TP65.1i ;16
Ct.0:
         u49.13i ;16
Ct.Q:
                                               DesClk: v01.14i
                                                                 ;30
                  ;16
Ct.0:
         v63.15i
                                               DesC1k: u14.80
                                                                  ;31
Ct.0:
         u01.13o
                 ;28
                                                DesClk: u14.3i
                                                                  ;32
         u49.50, #TP66.1i ;16
Ct.1:
                                                DesError: u01.140 ;28
                  :16
Ct.1:
         u49.14i
Ct.1:
         v63.1i
                  ;16
                                                              v33.9o, v18.3i, v96.3i ;32
                                                DesMpError:
Ct.1:
         u01.8i
                  ;28
                                                DesMpState.0: v33.20, v18.15i
         u49.6o, #TP67.1i
                           ;16
Ct.2:
                                                DesMpState.0: v96.15i
                  ;16
 Ct.2:
         u49.17i
 Ct.2:
         v63.2i
                  ;16
                                                DesMpState.1: v33.50, v18.1i ;32
 Ct.2:
         u01.7i
                  ;28
                                                DesMpState.1: v96.1i
 Ct=Emu: u49.9o, #TP68.1i ;16
                                                DesMpState.2: v33.6o, v18.2i ;32
 Ct=Emu: u49.18i ;16
```

PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG	DWG NO.	156	P12560	SHEET
	SIZE	D	150	r 12000	REV.
XEROX TITLE			C 1	^=	
SCHEMATIC CPE-EP	A4	SHEET	54	OF	Α

```
EKTrapc2': #TP79.1i, v02.60 ;17
DesMpState.2: v96.2i
                                             EKTrapc2:
                                                         u48.15i ;14
DesReset': v33.1i, u14.5o, u85.1i ;32
                                                         v43.15i ;14
                                             EKTrapc2:
                                              EKTrapc2: #TP80.1i, v02.90 ;17
              v33.19o, v00.2i
                                ; 32
DesSpError:
                                              EmuMemErr: #TP199.1i, u64.6o;17
DesSpState.0: v33.15o, v00.15i
                                              EmuMemErr: u45.16i
DesSpState.1: v33.16o, v00.1i
                                ;32
                                                                  ;05
                                              EnableSU:
                                                         v42.17i
                                                                  ;05
                                              EnableSU:
                                                         v69.17i
        u32.140 ;11
DES←':
                                                                  ;05
                                              EnableSU:
                                                         v41.17i
DES←':
        u87.9i
                 ;30
                                                                  ;05
                                              EnableSU:
                                                         v68.17i
        v96.6i, v18.6i;32
DES←':
                                              EnableSU:
                                                         u72.2i
                                                                  ;05
                                              EnableSU:
                                                         u67.50
                                                                  ;10
              E66, u34.12i
                             ;18
Disp-Proc':
                                              EnDispBr.3A': u71.60
                                                                     :12
          u71.5i, u71.10i, u71.3o;12
DispBr':
                                                                     :13
                                              EnDispBr.3A': v07.7i
DispBr.0': v77.4o, #TP24.1i ;13
                                              EnDispBr0-1': u71.110
                                                                     ;12
DispBr.0': v05.2i
                    ; 14
                                              EnDispBr0-1': v77.15i ;13
DispBr.1': v77.7o, #TP25.1i ;13
                                              EnDispBr2-3B':
                                                               u71.13i, u71.8o
                                                                                  :12
DispBr.1': v05.5i
                    ; 14
                                              EnDispBr2-3B':
                                                                         ;13
                                                               v23.7i
                                              EnDispBr2-3B':
DispBr.2': v23.6o, #TP26.1i ;13
                                                               v49.7i
                                                                         ;13
DispBr.2': v20.2i
                    ;14
                                                         v81.13i, v82.13i
                                              EnLRotn':
                                                         v88.13i, v80.13i
              v07.60, #TP27.1i ;13
                                              EnLRotn':
DispBr.3A':
                                              EnLRotn': u33.80
                                                                  ; 12
DispBr.3A':
              v20.4i
                       ; 14
                                                                                  ;11
                                              EnterKernel': u52.14o, #TP175.1i
              v49.60, #TP28.1i ;13
DispBr.3B':
                                              EnterKernel': u44.4i
              v20.3i
                       ; 14
DispBr.3B':
                                                         v89.11o, E126 ;11
                                              EOCt1←':
DPReq': £85, u73.2i;16
                                              EOData←': v67.11o, E23
                                                                         ;11
DRef': v38.4i, u34.11o, v86.17i
                                              EORound:
                                                         E89, u73.15i
                                                                         ;16
        v86.3o, u70.13i
DRef:
                           ;18
                                              EReq': E86, u73.4i;16
           v67.10o, E123 ;11
EICt1←':
                                              EReq': u88.4i
                    ;09
EKErr.0':
           v60.2i
                                              EStrobe': v79.70, E35;11
EKErr.0':
           #TP81.1i, v02.12o;17
EKErr.0':
           u45.6i
                                                                                  ;11
                                              ExitKernel': u52.15o, #TP174.1i
EKErr.0': u01.160
                    ;28
                                              ExitKernel': u44.3i
                                                                      ;17
                    ;09
EKErr.1': v60.4i
                                              ExtPwr: J2.14, f01.60, J2.15;36
           #TP82.1i, v02.150;17
EKErr.1':
                                              ExtPwr: J1.05, J1.06
EKErr.1':
           u45.5i
EKErr.1':
           u01.17o
                    ;28
                                                      u81.31o ;03
                                              F.0:
                                                                ;13
                                              F.0:
                                                      v07.4i
EKTrapc2': v92.3i, v92.11i
                              :14
EKTrapc2': v92.5i
                     ;14
                                                      v21.13i, u80.11o ;03
                                              Feq0:
EKTrapc2': v91.3i, v91.11i
                              :14
                                                                ;03
                                              Feq0:
                                                      v08.110
EKTrapc2': v91.5i
                     ; 14
                                                                ;03
EKTrapc2': v90.3i, v90.11i
                                              Feq0:
                                                      v09.110
                              ; 14
                                                      u81.110
                                              Feq0:
                                                                ;03
EKTrapc2': v90.5i
                     ;14
                                                                ;13
EKTrapc2': v93.3i, v93.11i
                                              Feq0:
                                                      v07.3i
                              ; 14
                                                      #R1.2i
                                                                ;27
                                              Feq0:
EKTrapc2': v93.5i
                     ; 14
```

```
u33.13i ;12
                                                fS.3':
                                                        u21.460 ;40
                                                fS.3':
Fne0:
        v21.12o ;03
        v07.2i
                  ;13
Fne0:
                                                fS.3:
                                                        u68.150
                                                                 ;10
                                                        u18.5i, u32.5i;11
                                                fS.3:
        J1.04;38
FPCLK:
                                                fS.3:
                                                        v79.6i
                                                                  ;11
                 ;38
        u46.12o
FPCLK:
                                                fS.3:
                                                        u34.4i
                                                                  ;12
                 ;40
        u21.350
FPCLK:
                                                        u33.2i
                                                fS.3:
                                                                  ;12
        u20.350
                 ;40
FPCLK:
                                                        u53.9i
                                                                  ;12
                                                fS.3:
FPI.0:
        v03.2i
                  ;36
                                                        u30.20
                                                                  ;10
                                                fX.0:
        J1.07 ;38
FPI.0:
                                                fX.0:
                                                        u15.6i
                                                                 :11
                                                        u84.2i, u35.2i;15
                                                fX.0:
        v03.4i
                  ;36
FPI.1:
        J1.08;38
FPI.1:
                                                        u30.50
                                                                  ;10
                                                fX.1:
                                                                  ;11
                                                fX.1:
                                                        u15.3i
        v03.6i
FPI.2:
                  ;36
                                                fX.1:
                                                        u84.14i
                                                                  ; 15
        J1.09 ;38
FPI.2:
                                                fX.2:
                                                        u30.6o
                                                                  ;10
                  ;36
        v03.8i
FPI.3:
                                                        u15.2i
                                                                  ;11
                                                fX.2:
        J1.10 ;38
FPI.3:
                                                                  ;15
                                                fX.2:
                                                         u84.15i
                  ;36
FPS.0:
        v03.13i
                                                         u30.90
                                                                  ;10
                                                fX.3:
        u21.660
                  ;40
FPS.0:
                                                                  ;11
                                                         u15.1i
                                                fX.3:
        u20.660
                  ;40
FPS.0:
                                                         u84.1i
                                                                  ;15
                                                fX.3:
                  ;36
FPS.1:
        v03.15i
                                                                  ;10
                                                fY.0': u68.60
FPS.1:
        u21.670
                  ;40
                                                                  ;11
                                                fY.0':
                                                        v57.4i
FPS.1:
        u20.670
                  ;40
                                                fY.0':
                                                                  ;11
                                                        v89.4i
                                                fY.0':
                                                        u71.9i
                                                                  :12
        v03.17i
                  :36
FPS.2:
FPS.2:
        u21.1i
                  :40
                                                                   :09
                                                fY.0:
                                                         v46.2i
                  ;40
FPS.2:
        u20.1i
                                                fY.0:
                                                         u68.70
                                                                  ;10
                                                fY.0:
                                                         u52.4i
                                                                   ;11
        u67.160 ;10
fS.0:
                                                         v67.4i
                                                fY.0:
                                                                   ; 11
         v67.6i, v89.6i;11
fS.0:
                                                fY.0:
                                                                   ;12
                                                         u71.4i
        u52.5i, v57.5i;11
fS.0:
                                                         J1.12 ;38
                                                fY.0:
         u34.10i ;12
fS.0:
                                                fY.0:
                                                         u46.5i
                                                                   ;38
                  ;12
fS.0:
         u71.2i
                                                fY.1:
                                                         v46.5i
                                                                   ;09
         u67.19o ;10
fS.1:
                                                fY.1:
                                                         u67.90
                                                                   ;10
fS.1:
         u52.6i, v57.6i ;11
                                                fY.1:
                                                         u52.3i
                                                                   ;11
         v67.5i, v89.5i;11
fS.1:
                                                fY.1:
                                                         v57.3i
                                                                   ;11
                  :12
fS.1:
         u34.9i
                                                fY.1:
                                                         v67.3i
                                                                   ;11
fS.1:
         u71.1i
                  ; 12
                                                fY.1:
                                                         v89.3i
                                                                   ;11
                                                                  ;12
                                                fY.1:
                                                         u71.12i
         u68.11o ;10
fS,2':
                                                         v07.9i
                                                                   ;13
                                                fY.1:
fS.2':
        v79.5i, v87.5i;11
                                                                   ;13
                                                         v49.9i
                                                fY.1:
fS.2':
                  ;11
         u18.6i
                                                         v23.9i
                                                                   ;13
                                                fY.1:
fS.2':
         u33.12i
                  ; 12
                                                fY.1:
                                                         J1.13 ;38
fS.2':
         u34.5i
                  ;12
                                                                  ;40
                                                fY.1:
                                                         u20.47o
                                                fY.1:
                                                         u21.47o
                                                                  ;40
         u68.10o
                  ;10
fS.2:
                  ;11
fS.2:
         u32.4i
                                                                   ;09
                                                fY.2:
                                                         v46.11i
                  ;12
fS.2:
         u33.1i
                                                fY.2:
                                                         u67.120
                                                                  ;10
fS.2:
                  ;12
         u53.10i
                                                fY.2:
                  ;40
                                                         u52.2i
                                                                   ; 11
fS.2:
         u20.460
                                                fY.2:
                                                         v57.2i
                                                                   ;11
                                                fY,2:
                                                         v67.2i
                                                                   ;11
fS.3': u68.140
                  ;10
                                                fY.2:
                                                         v89.2i
                                                                   ;11
                  ;11
fS.3': v87.4i
```

	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
XEROX	TITLE SCHEMATIC, CPE-FP	A4	SHEET	56	OF	Α

```
u53.11i
                                                                      ;12
                                                   fZL.0:
fY.2:
         v07.10i
                   ;13
                                                   fZL.0:
                                                                       ;38
                                                            v95.70
fY.2:
         v49.10i
                   ;13
                   ;13
fY.2:
         v23.10i
                                                            u81.30i
                                                                       ;03
                                                   GND:
         J1.14 ;38
fY.2:
                                                                       ;03
                                                   GND:
                                                            u80.30i
                  ;40
         u21.39o
fY.2:
                                                                       ;03
                                                   GND:
                                                            v08.30i
         u20.39o
                   ;40
fY.2:
                                                                       ;03
                                                            v09.30i
                                                   GND:
                                                            u80.40i
                                                                       ;03
                                                   GND:
                   ;09
fY.3:
         v46.14i
                                                            v09.40i
                                                                      ,;03
                                                   GND:
                   ;10
fY.3:
         u67.150
                                                            v08.40i
                                                                       ;03
                                                   GND:
fY.3:
         u52.1i
                   ;11
                                                            u81.40i
                                                                       ;03
                                                   GND:
fY.3:
         v57.1i
                   ;11
                                                            v42.19i
                                                                       ;05
                                                   GND:
fY.3:
         v67.1i
                   ;11
                                                            v69.19i
                                                                       ;05
                                                   GND:
fY.3:
         v89.1i
                   ;11
                                                                       ;05
                                                   GND:
                                                             v41.19i
fY.3:
                   ;13
         v07.11i
                                                             v68.19i
                                                                       ;05
                                                   GND:
                   ;13
fY.3:
         v49.11i
                                                                       u91.11i, u91.6i
                                                             u91.14i,
                                                   GND:
                   ;13
fY.3:
         v23.11i
                                                   GND:
                                                             u91.3i
fY.3:
         v77.1i
                   ;13
                                                                       ;05
                                                   GND:
                                                             v58.15i
fY.3:
         J1.15 ;38
                                                             v42.18i
                                                                       ;05
                                                   GND:
                   ;40
fY.3:
         u21.40o
                                                   GND:
                                                             v68.18i
                                                                       ;05
                   ;40
fY.3:
         u20.40o
                                                   GND:
                                                             v41.18i
                                                                       ;05
                                                             v69.18i
                                                                       ;05
                                                   GND:
                    ;09
         v85.2i
fZ.0:
                                                             v48.2i
                                                                       ;06
                                                   GND:
                   ;10
         u30.120
fZ.0:
                                                             v47.2i
                                                                       ;06
                                                   GND:
         u33.9i
                    ;12
fZ.0:
                                                             u61.15i
                                                                       ;07
                                                   GND:
                                                             u43.15i
                                                                       ;07
                                                    GND:
         v85.4i
                    ;09
fZ.1:
                                                                       ;07
                                                    GND:
                                                             u61.10i
         u30.150
                   ;10
fZ.1:
                                                             u43.10i
                                                                       ;07
                                                    GND:
                    ;11
fZ.1:
         u18.3i
                                                             v38.13i
                                                                       ;07
                                                    GND:
                    ;11
         v87.3i
fZ.1:
                                                             u61.8i
                                                                       ;07
                                                    GND:
         v79.3i
                    ;11
fZ.1:
                                                             u43.8i
                                                                       ;07
                                                    GND:
                   ;11
          u32.3i
fZ.1:
                                                                       ;07
                                                    GND:
                                                             v65.1i
         u33.4i, u33.10i
                              ;12
fZ.1:
                                                             v61.11i, v61.13i, v61.15i
                                                    GND:
                                                             v61.17i, v39.11i, v39.13i
                                                    GND:
         v81.9i, v82.9i, v88.9i ;08
fZ.2:
                                                    GND:
                                                             v39.15i, v39.17i
fZ.2:
          v80.9i
                                                             v59.13i, v59.10i, v59.6i
                                                                                            ;09
                                                    GND:
                    ;09
fZ.2:
          v59.1i
                                                             v59.3i
                                                    GND:
                    ;09
fZ.2:
          v85.6i
                                                             v46.13i, v46.10i, v46.6i
                                                                                            ;09
                                                    GND:
                    ;10
fZ.2:
          u30.16o
                                                             v46.3i
                                                    GND:
                    ;11
fZ.2:
          u18.2i
                                                                        ;10
                                                             v16.1i
                                                    GND:
                    ;11
fZ.2:
          v87.2i
                                                             u67.1i
                                                                       ;10
                                                    GND:
                    ;11
fZ.2:
          v79.2i
                                                             u30.1i
                                                                        ;10
                                                    GND:
fZ.2:
          u32.2i
                    ;11
                                                    GND:
                                                             v17.1i
                                                                        ;10
          v81.10i, v82.10i, v88.10i ;08
                                                    GND:
                                                             u15.4i
                                                                        ;11
fZ.3:
                                                             u15.5i
                                                    GND:
                                                                        ;11
 fZ.3:
          v80.10i
                                                    GND:
                                                             u48.3i
                                                                        ; 14
                    ;09
 fZ.3:
          v85.8i
                                                             u84.13i
                                                                        ;15
                                                    GND:
                    ;10
 fZ.3:
          u30.19o
                                                                        :15
                                                             v45.13i
                                                    GND:
                    ;11
 fZ.3:
          u18.1i
                                                             v74.13i
                                                                        ;15
                                                    GND:
          v87.1i
                    ;11
 fZ.3:
                                                                        ; 15
                                                             v75.13i
                                                    GND:
                    ;11
 fZ.3:
          v79.1i
                                                                        ;15
                                                             v44.13i
                                                    GND:
          u32.1i
                    ;11
 fZ.3:
                                                             v74.2i
                                                                        ;15
                                                    GND:
                                                    GND:
                                                             v75.2i
                                                                        ; 15
                    ;11
 fZH.0:
          v79.4i
                                                    GND:
                                                              v44.2i
                                                                        ;15
                    ;11
          u18.4i
 fZH.0:
                                                                        :15
                                                    GND:
                                                              v45.2i
                    ;38
          v95.20
 fZH.0:
                                                                        ;16
                                                              v63.13i
                                                    GND:
                                                                        ;16
                                                              u49.1i
                                                    GND:
                    ;11
          v87.6i
 fZL.0:
                                                              v63.14i
                                                                        ;16
                                                    GND:
                    ;11
 fZL.0:
          u32.6i
                                                                        ; 17
                                                              u44.15i
                                                    GND:
                     ;12
          u33.5i
 fZL.0:
```

	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.	l
XEROX	TITLE SCHEMATIC CREER	A4	SHEET	57	OF	Α	L

```
#C95.10, #C45.10, #C123.10
                                                GND:
GND:
        u45.2i
                  ; 17
                                                GND:
                                                         #C69.10, #C70.10, #C71.10
GND:
        u16.15 i
                  ; 17
                                                         #C54.10, #C55.10, #C56.10
                                                GND:
        u44.13i
                  ;17
GND:
                                                GND:
                                                         #C57.10, #C58.10, #C59.10
        u16.13i
                  ;17
GND:
                                                         #C37.10, #C38.10, #C39.10
                  ;17
                                                GND:
        u44.14i
GND:
                                                         #C40.10, #C41.10, #C42.10
                                                GND:
                  ;17
        u16.14i
GND:
                                                                                          ;37
                                                        -#C99.10, #C100.10, #C101.10
                  ;17
                                                GND:
         u45.10i
GND:
                                                         #C102.10, #C103.10, #C104.10
                                                 GND:
                  ;17
         u45.8i
GND:
                                                         #C81.10, #C82.10, #C83.10
                                                 GND:
         u70.3i,
                 u70.2i ;18
GND:
                                                         #C84.10, #C85.10, #C86.10
                                                 GND:
GND:
         v97.3i
                  ;18
                                                         #C66.10, #C67.10, #C68.10
                                                 GND:
                  ; 19
GND:
         v70.19i
                                                         #C3.1o, #C89.1o, #C72.1o
                                                                                       ;37
                                                 GND:
                  ;19
         v70.1i
GND:
                                                         #C73.10, #C75.10, #C46.10
                                                 GND:
         v71.19i
                  ;19
GND:
                                                 GND:
                                                         #C44.10, #C52.10, #C53.10
         v71.1i
                   ;19
GND:
                                                         #C114.10, #C115.10, #C116.10
                                                 GND:
GND:
         u22.13i
                   ;24
                                                         #C117.10, #C118.10, #C119.10
                                                 GND:
         u23.13i
                   ;24
GND:
                                                         #C9.10, #C50.10, #C20.10
                                                                                       ;37
                                                 GND:
GND:
         u24.13i
                   ; 24
                                                         #C19.10, #C18.10, #C16.10
                                                 GND:
         u25.13i
                   :24
GND:
                                                 GND:
                                                         #C10.10, #C29.10, #C32.10
                  ;24
         u26.13i
GND:
                                                         #C8.10, #C6.10, #C31.10
                  ;24
                                                 GND:
         u27.13i
GND:
                                                         #C7.10, #C5.10, #C4.10
                                                 GND:
         u29.8i
                   ;24
GND:
                                                         #C142.10, #C143.10, #C144.10 ;37
                                                 GND:
                  ;24
         u29.10i
GND:
                                                         #C132.10, #C146.10, #C13.10
                                                 GND:
                  v19,7i
                            ;26
         v19.10i,
GND:
                                                         #C14.10, #C15.10, #C30.10
                                                 GND:
         u04.1i
                   ;26
GND:
                                                          #C63.10, #C77.10, #C90.10
                                                 GND:
GND:
         u13.4i
                   ;26
                                                         #C51.10, #C93.10, #C28.10
                                                 GND:
         u01.9i
                   ;28
GND:
                                                                                          ;37
                                                         #C126.10, #C125.10, #C49.10
                                                 GND:
                   ;28
GND:
         u05.1i
                                                          #C140.10, #C139.10, #C138.10
                                                 GND:
GND:
         u05.110
                   ;28
                                                          #C135.10, #C136.10, #C137.10
                                                 GND:
         u01.2i
                   ;28
GND:
                                                          #C151.10, #C152.10, #C150.10
                                                 GND:
         u01.19o
                   ;28
GND:
                                                          #C148.10, #C141.10, #C147.10
                                                 GND:
                   ;28
GND:
         u01.12o
                                                                   ;38
                                                          v95.6i
                   ;28
                                                 GND:
GND:
         u05.10i
                                                          J1.02, J1.01, J1.20, J1.03;38
                   ;29
                                                 GND:
         v94.1i
GND:
                                                                    ;38
                                                          v95.12i
                                                 GND:
         u64.1i
                   ;29
GND:
         v02.1i
                   ;29
                                                          u21.17i
                                                                    ;40
                                                 GND:
GND:
                                                          u21.33i
                                                                    ;40
                                                 GND:
                   ;29
GND:
         u28.1i
                                                          u21.680
                                                                    ;40
                   ;29
                                                 GND:
         v86.19i
GND:
                                                                    ;40
                                                 GND:
                                                          u21.51o
                   ;29
GND:
         v86.1i
                                                                    ;40
         v01.20i, v01.1i, v01.30i
                                                 GND:
                                                          u21.42o
                                      :30
GND:
                                                 GND:
                                                          u20.42o
                                                                    ;40
         v01.25i, v01.13i, v01.28i
GND:
                                                 GND:
                                                          u20.51o
                                                                    ;40
GND:
         v56.1i
                   ;30
                                                 GND:
                                                          u20.680
                                                                    ;40
GND:
         v18.14i
                   ;32
                                                                    :40
                                                 GND:
                                                          u20.33i
GND:
         v18,13i
                   :32
                                                                    ;40
                                                 GND:
                                                          u20.17i
         v96.14i
                   :32
GND:
                                                          #C109.10, #C128.10, #C108.10
                                                 GND:
                   :32
         v96.13i
GND:
                                                          #C131.10, #C124.10, #C112.10
                                                 GND:
         v00.14i
                   ;32
GND:
                                                          #C121.10, #C120.10, #C110.10
                                                 GND:
         v00.13i
                   ;32
GND:
                                                          #C122.10, #C134.10, #C127.10
                                                 GND:
         v00.5i
                   ;32
GND:
                                                          #C130.10, #C129.10, #C133.10
                                                 GND:
                   ;36
GND:
         u04.13i
                                                          #C145.10, #C47.10, #C65.10;41
                                                 GND:
                   ;36
GND:
         u65.1i
                                                          #C61.10, #C88.10, #C87.10
                                                 GND:
                   ;36
GND:
         u65.19i
                                                 GND:
                                                          #C94.10, #C106.10, #C96.10
GND:
         v40.1i
                   ;36
                                                          #C79.10, #C80.10, #C43.10
                   ;36
                                                 GND:
         u83.1i
GND:
                                                          #C153.10, #C98.10, #C113.10
         J2.37, J2.19, J2.18, J2.17;36
                                                 GND:
GND:
                                                          #C74.10, #C107.10, #C48.10;41
                   ;36
                                                 GND:
GND:
         u51.8i
                                                          #C17.10, #C21.10, #C149.10
                                                 GND:
         #C22.10, #C23.10, #C24.10 ;37
GND:
                                                          #C34.10, #C35.10, #C33.10
                                                 GND:
         #C25.1o, #C26.1o, #C27.1o
GND:
                                                          #C36.10, #C111.10, #C60.10
                                                 GND:
         #C78.10, #C105.10, #C92.10
GND:
                                                          #C62.10, #C1.10, #C64.10
                                                 GND:
         #C91.10, #C97.10, #C76.10
 GND:
```

	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
XEROX	TITLE SCHEMATIC, CPE-FP	A4	SHEET	58	OF	Α

```
u52.12o, #TP177.1i
        #C155.10, #C154.10, #C158.10 ;41
                                               IBDisp':
GND:
        #C157.10, #C2.10
GND:
                                               IBEmptyErr': u87.60, u31.4i;10
        E10, E20, E30, E40
GND:
        E110, E120, E130, E140 ;42
GND:
                                                                        :07
                                               IBEmptyErr:
                                                              v38.50
        E90, E80, E70, E60 ;42
GND:
                                                IBEmptyErr:
                                                              u87.5i
                                                                        ;10
        E190, E180, E170, E160 ;42
GND:
                                                              u45.15i
                                                                       ;17
                                               IBEmptyErr:
                  ;42
        u02.8i
GND:
        u42.10i
                  ;42
GND:
                                                           u61.11o, #TP16.1i;07
                                                IBFront←:
        #C12.2i, #C11.2i ;42
GND:
                                                           v04.12i ;18
                                                IBFront←:
GoodIBDispc2: u61.12o, #TP17.1i;07
                                                           #TP172.1i, u64.2o, u61.6i ;07
                                                IBPtr.0:
GoodIBDispc2: v43.1i
                        ;14
                                                           u43.6i, v38.1i
                        ;14
                                                IBPtr.0:
GoodIBDispc2: v91.4i
                        ;14
                                                           v60.6i
                                                                     ;09
                                                IBPtr.0:
GoodIBDispc2: v92.4i
GoodIBDispc2: v93.4i
                        ;14
                                                           #TP173.1i, u64.5o, u61.5i ;07
                                                IBPtr.1:
                        ;14
GoodIBDispc2: v90.4i
                                                IBPtr.1:
                                                           u43.5i, v38.12i
                        ;28
GoodIBDispc2: u28.17i
                                                IBPtr.1:
                                                           v60.8i
                                                                     ;09
                                                                    ; 14
                                                           u48.13i
                                                IBPtr.1:
                                  ;28
GoodIBDispc3: u28.16o, u01.1i
                                                IBPtr←0':
                                                           u61.1i, u43.1i;07
        v22.6o, u70.5i;18
hlb:
                                                           u18.13o, #TP180.1i
                                                IBPtr←0':
                                                                                  ;11
       . v65.2o, #TP8.1i
IB.0:
                            ;07
                                                           u61.2i, u43.2i;07
                                                IBPtr←1':
        v59.2i
                  ;09
IB.0:
                                                IBPtr←1': u18.14o, #TP179.1i
                                                                                  ;11
        v64.2i
                  ;09
IB.0:
                  ;14
        v43.3i
IB.0:
                                                        u61.17i, u43.17i ;07
                                                IB←':
                                                IB←':
                                                                  ;11
         v65.5o, #TP9.1i
                            ;07
                                                        u52.90
IB.1:
                                                                  ;18
                                                IB←':
                                                        u35.5i
                  ;09
IB.1:
         v59.5i
IB.1:
         v64.5i
                  ;09
                                                           u48.2i
                                                                     ;14
                                                INIA.00:
IB.1:
         v43.6i
                  ; 14
                                                INIA.00:
                                                           v53.30
                                                                     ;19
                                                                                  ;20
                                                INIA.00:
                                                           #TP123.1i, v28.12o
IB.2:
         v65.6o, #TP10.1i ;07
                                                                     ;21
                                                INIA.00:
                                                           u58.120
IB.2:
         v59.11i
                  ;09
                                                                     ;22
                                                INIA.00:
                                                           u95.120
                  ;09
IB.2:
         v64.11i
                                                INIA.00:
                                                           u25.9i
                                                                     ;24
IB.2:
         v43.10i
                  ;14
                                                           u08.1i
                                                                     ;25
                                               . INIA.00:
IB.3:
         v65.9o, #TP11.1i ;07
                                                           u48.5i
                                                                     ;14
                                                INIA.01:
         v59.14i
                 ;09
IB.3:
                                                INIA.01:
                                                           v53.50
                                                                     ;19
         v64.14i
                  ;09
IB.3:
                                                            #TP124.1i, v28.13o
                                                                                  ;20
                                                INIA.01:
         v43.13i
                 ; 14
IB.3:
                                                                    ;21
                                                INIA.01:
                                                            u58.130
                                                INIA.01:
                                                            u95.13o
                                                                     ;22
         v65.12o, #TP12.1i;07
IB.4:
                                                            u25.10i
                                                                     ; 24
                                                INIA.01:
                  ;09
IB.4:
         v64.3i
                                                            u12.1i
                                                                     ;25
                                                INIA.01:
         v91.6i
                  ; 14
IB.4:
                                                INIA.02:
                                                            u48.11i
                                                                     ;14
         v65.15o, #TP13.1i;07
IB.5:
                                                                     ;19
                                                INIA.02:
                                                            v53.70
IB.5:
         v64.6i
                  ;09
                                                INIA.02:
                                                            #TP125.1i, v28.14o
                                                                                  :20
         v92.6i
                  ;14
IB.5:
                                                                     ;21
                                                INIA.02:
                                                            u58.140
                                                INIA.02:
                                                            u95.140
                                                                     ;22
         v65.16o, #TP14.1i;07
IB.6:
                                                                     ;24
                                                INIA.02:
                                                            u25.11i
         v64.10i ;09
IB.6:
                                                INIA.02:
                                                            u09.1i
                                                                     ;25
                  ;14
IB.6:
         v90.6i
                                                INIA.03:
                                                            u48.14i
                                                                     ; 14
         v65.19o, #TP15.1i;07
IB.7:
                                                                     ;19
                                                INIA.03:
                                                            v53.90
IB.7:
         v64.13i ;09
                                                            #TP126.1i, v28.15o
                                                                                  ;20
                                                INIA.03:
                  ;14
IB.7:
         v93.6i
                                                            u58.150 ;21
                                                INIA.03:
                                                INIA.03:
                                                            u95.150
                                                                    ;22
            u61.7i, u43.7i;07
IBDisp':
```

	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560		SHEET REV.
XEROX	TITLE SCHEMATIC, CPE-FP	A4	SHEET	59	OF	\Box	Α

```
;14
                                                          v93.2i
                                               INIA.11:
           u25.12i ;24
INIA.03:
                                                                    ;19
                                               INIA.11:
                                                          v55.90
           u54.1i
                     ;25
INIA.03:
                                                          v30.15o ;20
                                               INIA.11:
                                                          #TP142.1i, u60.15o
                                                                                ;21
                                               INIA.11:
INIA.04:
           v43.2i
                     ; 14
                                                          u97.150 ;22
                                               INIA.11:
INIA.04:
           v54.30
                     :19
                                                          u27.12i
                                                                    ;24
                                               INIA.11:
           v29.12o
                    ;20
INIA.04:
                                               INIA.11:
                                                          u54.14i
                                                                   ;25
           #TP131.1i, u59.12o
                                 ;21
INIA.04:
           u96.12o
                    ;22
INIA.04:
                                               IntExternal': u85.13i ;24
                     ;24
           u26.9i
INIA.04:
                                                                       :27
                                               IntExternal': u88.8i
                     ;25
           u08.15i
INIA.04:
                                               IntExternal': v03.11i ;36
                                               IntExternal': J1.11;38
                     ;14
INIA.05:
           v43.5i
                     ;19
INIA.05:
           v54.50
                                               IOBank: v63.120 ;16
INIA.05:
           v29.13o
                     ;20
                                               IOBank: u13.13i, u13.12i, u13.5i
                                                                                    :26
                                 ;21
           #TP132.1i, u59.13o
INIA.05:
                                               IOBank: u13.1i
                    ;22
           u96.130
INIA.05:
           u26.10i
                     ;24
INIA.05:
                                                              E176, v71.13i ;19
                                               IOPAddr.13:
           u12.15i
                     ; 25
INIA.05:
                                               IOPAddr.14:
                                                              E77, v71.11i
                                                                              ;19
INIA.06:
           v43.11i
                     ;14
INIA.06:
           v54.7o
                     ;19
                                               IOPAddr.15:
                                                              E177, v73.11i ;19
                    ;20
INIA.06:
            v29.14o
                                  ;21
INIA.06:
           #TP133.1i, u59.14o
                                               IOPCt1←': v67.14o, E121 ;11
           u96.140 ;22
INIA.06:
                    ;24
            u26.11i
INIA.06:
                                               IOPData.0: E92, v70.2i ;19
                    ;25
INIA.06:
            u09.15i
                                               IOPData.0: u06.50
            v43.14i
                     ;14
INIA.07:
                                               IOPData.1: E192, v70.4i
                                                                           ;19
                     ;19
INIA.07:
            v54.90
                                               IOPData.1: u10.50
                                                                   ; 25
                    ;20
INIA.07:
            v29.150
                                  ;21
            #TP134.1i, u59.150
INIA.07:
                                               IOPData.2: E93, v70.6i ;19
            u96.150
                    ;22
INIA.07:
                                               IOPData.2: u07.50
                     ;24
INIA.07:
            u26.12i
INIA.07:
            u54.15 i
                     ;25
                                               IOPData.3: E193, v70.8i
                                                                           :19
                                               IOPData.3: u11.50
INIA.08:
            v91.2i
                     ;14
            v55.30
                     ;19
INIA.08:
                                               IOPData.4: E94, v70.17i
                                                                           :19
            v30.12o ;20
INIA.08:
                                               IOPData.4: u08.50
            #TP139.1i, u60.12o
                                  :21
INIA.08:
                    ;22
            u97.120
INIA.08:
                                                IOPData.5: E194, v70.15i
                                                                           ;19
                     ;24
            u27.9i
INIA.08:
                                                IOPData.5: u12.50 ;25
                    ;25
INIA.08:
            u08.14i
                                                                           ;19
                                                IOPData.6: E95, v70.13i
INIA.09:
            v92.2i
                     ;14
                                                IOPData.6: u09.50
INIA.09:
            v55.50
                     ;19
            v30.13o ;20
INIA.09:
                                                IOPData.7: E195, v70.11i
            #TP140.1i, u60.13o
                                  ;21
INIA.09:
                                                IOPData.7: u54.50
                                                                     :25
                     ;22
            u97.13o
 INIA.09:
                     ;24
 INIA.09:
            u27.10i
                                                              v67.150, E21
                                                                              ;11
                                                IOPOData←':
            u12.14i
                     ; 25
 INIA.09:
                                                IOPReq':
                                                           E84, u73.3i ;16
            v90.2i
                     ;14
 INIA. 10:
                     ;19
            v55.70
 INIA.10:
                                                IOPReset': E117, v19.1i
                                                                           ;26
 INIA.10:
            v30.14o
                     ;20
                                                IOPReset': u14.2i
            #TP141.1i, u60.14o
                                  ;21
 INIA.10:
            u97.14o
                     ;22
 INIA.10:
                                                IOPWait:
                                                           u44.7i
                                                                   ; 17
            u27.11i ;24
 INIA. 10:
                                                           E189, u70.10i ;18
                                                IOPWait:
            u09.14i ;25
 INIA.10:
```

	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
XEROX	TITLE SCHEMATIC CPE-FP	A4	SHEET	60	OF	Α

```
u48.10i ;14
                                              MesaInt:
KCmd←': v89.10o, E27
                       ;11
                                                          #TP78.1i, u29.51, u64.160 ;24
                                              MesaInt:
KCt1+': v67.12o, E122 ;11
                                                             u52.11o, #TP178.1i
                                                                                   ;11
                                              MesaIntRq':
                                              MesaIntRq':
                                                             u29.7i
                                                                      ; 24
KernReq':
           u73.5i
           u44.1i, v94.16o
                              ;17
KernReq':
                                              MFLG':
                                                      v33.12o ;30
KernReq':
           #TP93.1i
                                                      v96.5i, v18.5i;32
                                              MFLG':
KOData←': v67.13o, E22
                           ;11
                                                       v56.19o, v01.16i ;30
                                              MP.0:
KReq': E87, u73.7i;16
                                                       v56.16o, v01.17i ;30
                                              MP.1:
KStrobe': v79.11o, E133 ;11
                                                       v56.15o, v01.18i
                                                                         ;30
                                              MP.2:
                     ;14
Link.0':
           v05.1i
                                                                         ;30
                                              MP.3:
                                                       v56.12o, v01.19i
Link.0':
           u86.3o
                     ; 15
                                                       v56.90, v01.24i
                                                                          :30
                                              MP.4:
                     ;14
Link.1':
           v05.4i
Link.1':
           u86.60
                     ;15
                                                       v56.60, v01.23i
                                                                          ;30
                                              MP.5:
Link.2':
           v20.13i
                     ;14
                                              MP.6:
                                                       v56.50, v01.22i
                                                                          ;30
           u86.8o
Link.2':
                     ;15
                                                                          ;30
                                                       v56.20, v01.21i
                     ;14
                                              MP.7:
Link.3':
           v20.5i
Link.3':
           u86.11o
                    ;15
                                                       v22.2i
                                                                ;18
                                              MS.0:
                                                       u35.13i
                                                                ;18
                                              MS.0:
        u70.6i, v38.6o, u70.4i ;18
11b:
                                                       u70.12i
                                                                 ;18
                                              MS.0:
                                              MS.0:
                                                       u06.13i
                                                                 ;25
MapRef: u50.60, E15;12
                                              MS.0:
                                                       v19.110
                                                                ;26
                                              MS.0:
                                                       u05.4i
                                                                 ;28
MapRefX': u15.100
                                                       v36.13i
                                                                ;36
                                              MS.0:
MapRefX':
           u50.5i
                     ;12
                                                       u35.12i
                                                                 ;18
                                               MS.1:
           v57.140 ;11
MapRefY':
                                               MS.1:
                                                       u70.11i
                                                                 ;18
MapRefY': u50.4i :12
                                                       u10.13i
                                                                 ;25
                                               MS.1:
                                                                 ;26
                                                       v19.12o
                                               MS.1:
MarPqCross': u72.80, u31.5i ;10
                                                       u05.3i
                                                                 ;28
                                               MS.1:
MarPgCross': v20.1i ;14
                                                       v36.11i
                                                                ;36
                                               MS.1:
                                    ;10
        #TP23.1i, v94.2o, u87.3i
                                                                v18.9o, v33.3i;32
                                               NextDesMpSt.0:
MAR←:
         u87.4o
                  ;10
                                                                                   ;32
                                                                v18.10o, v33.4i
                                               NextDesMpSt.1:
MAR←:
                  ;10
         u72.10i
                  ;18
MAR←:
         u34.13i
                                                                 v18.11o, v33.7i
                                                                                   ;32
                                               NextDesMpSt.2:
                  ;30
MAS':
         v01.27i
                                                                 v00.9o, v33.14i
                                                                                    ;32
                                               NextDesSpST.0:
         u85.2o
                  ;32
MAS':
                                                                                   ;32
                                                                 v00.10o, v33.17i
MCt1←': v89.13o, E115 ;11
                                               NextDesSpSt.1:
                                                                 v00.11o, v33.18i
                                                                                   ;32
                                               NextDesSpSt.2:
MDS':
         v01.26i
                  ;30
MDS':
         u85.7o
                  ;32
                                               NIA.00':
                                                          u47.20
                                                                    ;26
                                                          #TP152.1i, u66.5i;27
                                               NIA.00':
         u67.60, E113
                        ;10
mem:
                                               NIA.01':
                                                                   ;26
                                                          u47.70
 MemErrc3: E166, u31.9i
                           ;17
                                                          #TP153.1i, u66.6i;27
                                               NIA.01':
            u61.4i, u43.4i;07
 MesaInt:
                                               NIA.02':
                                                          u47.10o ;26
 MesaInt:
            v07.1i
                     ;13
```

	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.	
XEROX	TITLE SCHEMATIC CPE.EP	A4	SHEET	61	OF	Α	L

```
NIAX.06': v75.6i, v76.16o
                                                                           ;15
           #TP154.1i, u66.7i;27
NIA.02':
                                                        v73.160 ;19
                                             NIAX.06':
NIA.03':
           u47.150 ;26
                                                        v75.4i, v76.19o
                                                                           ;15
                                             NIAX.07':
           #TP155.1i, u66.8i;27
NIA.03':
                                             NIAX.07':
                                                                 ; 15
                                                        u35.1i
                                             NIAX.07':
                                                        v04.4i
                                                                  ;18
NIA.04':
           u82.20
                  ;26
                                                                ;19
                                             NIAX.07':
                                                        v73.140
NIA.04':
           #TP156.1i, u98.1i;27
                                             NIAX.08':
                                                                                    ;15
                                                        v44.12i, u84.12i, v62.20
                   ;26
           u82.70
NIA.05':
                                                        v73.12o ;19
                                             NIAX.08':
           #TP157.1i, u98.2i;27
NIA.05':
                                             NIAX.09': v44.10i, u84.10i, v62.50
                                                                                    ;15
NIA.06':
           u82.10o ;26
                                             NIAX.09': v73.30
                                                                  ;19
           #TP158.1i, u98.3i;27
NIA.06':
                                             NIAX.10': v44.6i, u84.6i, v62.6o ;15
NIA.07':
           u82.150 ;26
                                             NIAX.10': v73.50
                                                                  ;19
           #TP159.1i, u98.4i;27
NIA.07':
                                              NIAX.11': v44.4i, u84.4i, v62.9o ;15
                  ;26
           v31.2o
NIA.08':
                                              NIAX.11': v73.70
                                                                  ;19
           #TP160.1i, u98.5i;27
NIA.08':
                                              Nibble':
                                                         v46.15i
                                                                  :09
NIA.09':
           v31.7o
                  ;26
                                              Nibble':
                                                         v85.1i
                                                                  :09
           #TP161.1i, u98.6i;27
NIA.09':
                                                         u46.11i
                                                                  :12
                                              Nibble':
                                              Nibble':
                                                         u34.60
                                                                  ;12
           v31.10o ;26
NIA.10':
                                                                  :38
                                              Nibble':
                                                         u46.1i
           #TP162.1i, u98.7i;27
NIA.10':
                                                                  :38
                                              Nibble':
                                                         u46.3i
                                              Nibble':
                                                         v32.4i
                                                                  :38
NIA.11':
           v31.150 ;26
           #TP163.1i, u98.8i;27
NIA.11':
                                              NstackP.O: u89.3i
                                                                  :05
                                                                           ;06
                                              NstackP.O: u17.10o, v66.4i
NIABank.0':
                       :26
              u13.20
NIABank.0':
                       ;27
              u66.1i
                                              NstackP.1: u89.6i
                                                                  ;05
                                                                           ;06
                                              NstackP.1: u17.130, v66.5i
                        :26
NIABank.1':
              u13.70
                        ;27
NIABank.1':
              u66.2i
                                              NstackP.2: u89.11i ;05
                                                                           ;06
                                              NstackP.2: u17.1o, v66.12i
NIABank.2':
              u13.100
                       :26
NIABank.2':
              u66.3i
                        ;27
                                              NstackP.3: u89.14i ;05
                                              NstackP.3: u17.4o, v66.13i
                                                                           ;06
              u13.150 ;26
NIABank.3':
                       ;27
NIABank.3':
              u66.4i
                                                      v75.14i, v74.14i, v44.14i ;15
                                              Nt.0:
                                                      v45.14i ;15
                                              Nt.0:
NIAX.00': v74.12i, v76.20
                              ;15
                                                      #TP70.1i, v85.3o, u73.11o ;16
                                              Nt.O:
NIAX.00': v72.9o ;19
                                              Nt.O:
                                                      u49.3i
                                              Nt.0:
                                                      v63.3i
                                                               ;16
NIAX.01': v74.10i, v76.50
                              ;15
                                              Nt.0:
                                                      v72.20
                                                               :19
NIAX.01': v72.120 ;19
                                                      v75.15i, v74.15i, v44.15i ;15
                                              Nt.1:
NIAX.02':
           v74.6i, v76.6o;15
                                              Nt.1:
                                                      v45.15i ;15
NIAX.02': v72.150 ;19
                                                      #TP71.1i, v85.5o, u73.12o ;16
                                              Nt.1:
                                                      u49.4i
NIAX.03': v74.4i, v76.9o;15
                                              Nt.1:
                                                      v63.4i
                                                                ;16
NIAX.03': v72.16o ;19
                                              Nt.1:
                                              Nt.1:
                                                      v72.50
                                                               ;19
NIAX.04':
           v75.12i, v76.12o ;15
                                                      v75.1i, v74.1i, v44.1i ;15
                                              Nt.2:
NIAX.04':
           v72.19o ;19
                                              Nt.2:
                                                      v45.1i
                                                               ;15
                                                      #TP72.1i, v85.7o, u73.13o ;16
                                              Nt.2:
           v75.10i, v76.15o ;15
 NIAX.05':
                                              Nt.2:
                                                      u49.7i
 NIAX.05': v73.180 ;19
                                              Nt.2:
                                                      v63.7i
                                                               ;16
```

	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
XEROX	TITLE SCHEMATIC, CPE-FP	A4	SHEET	62	OF	Α

```
u69.2i
                                                                         ;30
                                                pAlwaysClk':
        v72.60
                  ;19
Nt.2:
                                                pAlwaysClk':
                                                                         :30
                                                               u69.10 i
                                                pAlwaysClk':
                                                                         ;31
                                                               u69.12i
Nt=Emu: #TP73.1i, v85.9o, u73.14o ;16
                                                                         ;36
                                                pAlwaysClk':
                                                               u69.4i
Nt=Emu: u49.8i
                                                paS.0:
                                                         v17.13i
                                                                 ;10
Overflow:
           u81.340
                     :03
                                                         u31.1i
                                                                  ;10
                                                paS.0:
Overflow: v49.12i
                     ; 13
                                                                  ;19
                                                         v51.18o
                                                paS.0:
                                                         #TP103.1i, v11.120
                                                                               ;20
                                                paS.0:
        v16.13i
                  ;10
paD.0:
                                                                  ;21
                                                         u37.12o
                                                paS.0:
        v51.70
                  ;19
paD.0:
                                                         u75.12o
                                                                  ;22
        #TP109.1i, v26.14o
                               ;20
                                                paS.0:
paD.0:
                                                                  ;24
                                                         u23.1i
                                                paS.0:
                  ;21
paD.0:
        u56.140
                                                                   ;25
                                                paS.0:
                                                         u06.3i
paD.0:
        u93.140
                  ;22
paD.0:
        u23.11i
                  ; 24
                                                                   ;10
                                                paS.1:
                                                         v17.14i
paD.0:
        u09.3i
                  ;25
                                                                   ;10
                                                paS.1:
                                                         u99.4i
                                                paS.1:
                                                         v51.160
                                                                  ;19
        v16.14i
                  ;10
paD.1:
                                                                                ;20
                                                paS.1:
                                                         #TP104.1i, v11.13o
        v51.90
                  ;19
paD.1:
                                                                  ;21
                                                paS.1:
                                                         u37.130
        #TP110.1i, v26.15o
                               ;20
paD.1:
                                                                   ;22
                                                         u75.130
                  ;21
                                                paS.1:
        u56.15o
paD.1:
                                                                   ;24
                                                         u23.2i
                                                paS.1:
                  ;22
        u93.15o
paD.1:
                                                                   ;25
                                                         u10.3i
                                                paS.1:
                  ;24
paD.1:
        u23.12i
        u54.3i
                  ;25
paD.1:
                                                                   ;10
                                                paS.2:
                                                         v17.17i
                                                         u99.5i
                                                                   ;10
                  ;10
                                                paS.2:
        u67.3i
paF.0:
                                                                   ;19
                                                         v51.140
                  ;19
                                                paS.2:
paF.0:
         v51.120
                                                                                ;20
                                                         #TP105.1i, v11.14o
                                                paS.2:
                               :20
         #TP106.1i, v11.150
paF.0:
                                                                  ;21
                                                         u37.14o
                                                paS.2:
                  ;21
paF.0:
        u37.150
                                                         u75.140
                                                paS.2:
                                                                   ;22
paF.0:
         u75.150
                  ;22
                                                         u23.4i
                                                                   ;24
                                                paS.2:
                  :24
paF.0:
         u23.8i
                                                paS.2:
                                                         u07.3i
                                                                   ;25
         u11.3i
                   ;25
paF.0:
                                                paSh.0: u31.3o, v17.18i
                                                                             ;10
         v16.17i
                  ;10
paF.1:
                  ;10
         u99.12i
paF.1:
                                                 pByte': v95.1i, v32.3o;38
         v51.30
                   ;19
paF.1:
                               ;20
         #TP107.1i, v26.12o
paF.1:
                                                         u62.9i
                                                                   ;04
                  ;21
                                                pc16':
paF.1:
         u56.12o
                                                 pc16':
                                                         v49.2i
                                                                   ;13
                   ;22
         u93.12o
paF.1:
                                                         u44.5i, u64.12o, #TP94.1i ;17
                   ;24
                                                 pc16':
         u23.9i
paF.1:
                   ;25
         u08.3i
paF.1:
                                                 pCIN-SE-wrSU: u68.4i
                                                                         ;10
                                                 pCIN-SE-wrSU: v52.160
                                                                         ;19
paF.2:
         v16.18i
                   ;10
                                                                                       ;20
                                                 pCIN-SE-wrSU: #TP112.1i, v12.13o
paF.2:
         u99.13i
                   ;10
                                                 pCIN-SE-wrSU: u38.13o
                                                                         ;21
paF.2:
         v51.50
                   ;19
                                                 pCIN-SE-wrSU: u76.13o
                                                                         ;22
         #TP108.1i, v26.13o
                                ;20
paF.2:
                                                 pCIN-SE-wrSU: u24.2i
                                                                          ; 24
         u56.130
                  ;21
paF.2:
                                                 pCIN-SE-wrSU: u10.2i
paF.2:
         u93.13o
                   ;22
                   ;24
paF.2:
         u23.10i
                                                 pCSWE.a': E81, v71.2i;19
                   ;25
paF.2:
         u12.3i
                                                                             ;19
                                                           E181, v71.4i
                                                 pCSWE.b':
PageCross: u50.3o, #TP2.1i
                                :04
PageCross: u72.9i
                      ;10
                                                 pCSWE.c':
                                                            E82, v71.6i;19
PageCross: v23.12i ;13
                                                 pCSWE.d':
                                                             E182, v71.8i
                                                                             ;19
               u31.6o, v94.4i;10
pAllowMDR←:
                                                             E83, v71.17i
                                                                             ;19
                                                 pCSWE.e':
               v05.13i, v05.10i ;18
 pAlwaysClk':
               v21.3i, v21.5i
 pAlwaysClk':
                                                            E183, v71.15i
                                                                             ; 19
                                                 pCSWE.f':
 pAlwaysClk':
               v97.10, v21.1i
```

```
pfS.3:
                                                        u24.12i
                                                                  ; 24
                                                pfS.3:
                                                        u54.2i
                                                                  ;25
PCt1+': v89.14o, E128 ;11
                                                pfX.0:
                                                        u30.3i
                                                                  ;10
pDesMpError: v18.12o, v33.8i
                                  ;32
                                                pfX.0:
                                                        v54.18o
                                                                  : 19
                                                        v14.12o
                                                                 ;20
                                                pfX.0:
pEKO': #TP85.1i, u45.13o, v02.13i;17
                                                                               ;21
                                                        #TP127.1i, u40.12o
                                                pfX.0:
                                                                 ;22
                                                pfX.0:
                                                        u78.120
        #TP86.1i, u45.14o, v02.14i;17
pEK1':
                                                        u26.1i
                                                                  ;24
                                                pfX.0:
                                                        u06.15i
                                                                  ;25
                                                pfX.0:
        #TP83.1i, u45.11o, v02.7i ;17
pEKT:
        #TP84.1i, u45.12o, v02.8i ;17
pEKT:
                                                        u30.4i
                                                                  ;10
                                                pfX.1:
                                                pfX.1:
                                                        v54.160
                                                                 ; 19
pEnableSU: u67.4i
                                                        v14.13o ;20
                                                pfX.1:
pEnableSU: v52.140 ;19
                                                        #TP128.1i, u40.13o
                                                                               ;21
                                  ;20
                                                pfX.1:
pEnableSU: #TP113.1i, v12.14o
                                                        u78.130 ;22
                                                pfX.1:
pEnableSU: u38.140 ;21
                                                        u26.2i
                                                                  ;24
                                                pfX.1:
pEnableSU: u76.14o
                     ;22
                                                        u10.15i
                                                                  ;25
                                                pfX.1:
pEnableSU: u24.4i
                     ;24
pEnableSU: u07.2i
                     ;25
                                                pfX.2:
                                                         u30.7i
                                                                  ;10
                                                                  ;19
                                                         v54.14o
                                                pfX.2:
         v52.18o ;19
pEP:
                                                                  ;20
                                                         v14.14o
                                                pfX.2:
         #TP111.1i, v12.12o
                               ;20
pEP:
                                                                               ;21
                                                         #TP129.1i, u40.14o
                                                pfX.2:
         u38.120 ;21
pEP:
                                                         u78.140
                                                                  ;22
                                                pfX.2:
         u76.120
                  ;22
pEP:
                                                                  ;24
                                                pfX.2:
                                                         u26.4i
         u24.1i
                  ;24
pEP:
                                                pfX.2:
                                                         u07.15i
                                                                  ;25
         u06.2i
                  ;25
pEP:
                                                pfX.3:
                                                         u30.8i
                                                                   ;10
         u67.17i
                  ;10
pfS.0:
                                                         v54.120
                                                                  :19
                                                pfX.3:
         v52.30
                  ;19
pfS.0:
                                                                  ;20
                                                pfX.3:
                                                         v14.150
                               ;20
         #TP115.1i, v27.12o
pfS.0:
                                                                                ;21
                                                         #TP130.1i, u40.150
                 ;21
                                                pfX.3:
         u57.120
pfS.0:
                                                                  ;22
                                                         u78.15o
                                                pfX.3:
                  ;22
         u94.12o
pfS.0:
                                                                   ;24
                                                pfX.3:
                                                         u26.8i
         u24.9i
                   ;24
pfS.0:
                                                         u11.15i
                                                                   ;25
                                                pfX.3:
                  ;25
pfS.0:
         u08.2i
                   ;38
         v32.2i
pfS.0:
                                                                   ;10
                                                pfY.0:
                                                         u68.5i
                                                pfY.0:
                                                         v53.18o
                                                                  ;19
         u67.18i
                   ;10
pfS.1:
                                                                                ;20
                                                         #TP119.1i, v13.12o
                                                pfY.0:
         v52.50
                   ; 19
pfS.1:
                                                pfY.0:
                                                         u39.12o
                                                                  ;21
                               ;20
pfS.1:
         #TP116.1i, v27.13o
                                                                   ;22
                                                pfY.0:
                                                         u77.12o
pfS.1:
         u57.130
                  ;21
                                                         u25.1i
                                                                   ;24
                                                pfY.0:
pfS.1:
         u94.13o
                   ;22
                                                pfY.0:
                                                         u06.1i
                                                                   ;25
                   ;24
pfS.1:
         u24.10i
                   ;25
 pfS.1:
         u12.2i
                                                         u67.8i
                                                                   ;10
                                                pfY.1:
                   ;38
         v32.1i
pfS.1:
                                                                  ;19
                                                         v53.16o
                                                 pfY.1:
                                                                                ;20
                                                         #TP120.1i, v13.13o
                                                 pfY.1:
         u91.1i, u89.1i;05
 pfS.2:
                                                                  ;21
                                                         u39.13o
                                                 pfY.1:
         u.68.12i ;10
 pfS.2:
                                                 pfY.1:
                                                         u77.13o
                                                                   ;22
         v52.7o
                  ; 19
 pfS.2:
                                                                   ;24
                                                 pfY.1:
                                                         u25.2i
         #TP117.1i, v27.14o
                                ;20
 pfS.2:
                                                 pfY.1:
                                                         u10.1i
                                                                   ;25
                  ;21
         u57.14o
 pfS.2:
                  ;22
 pfS.2:
         u94.14o
                                                 pfY.2:
                                                         u67.13i
                                                                   :10
         u24.11i
                   ; 24
 pfS.2:
                                                 pfY.2:
                                                         v53.14o
                                                                   :19
         u09.2i
                   ;25
 pfS.2:
                                                                                ;20
                                                         #TP121.1i, v13.14o
                                                 pfY.2:
                                                         u39.140
                                                                  ;21
                                                 pfY.2:
                  ;10
         u68.13i
 pfS.3:
                                                         u77.14o
                                                 pfY.2:
                                                                   ;22
                  ;19
 pfS.3:
         v52.90
                                                 pfY.2:
                                                         u25.4i
                                                                   ;24
         #TP118.1i, v27.15o
                                ;20
 pfS.3:
                                                 pfY.2:
                                                         u07.1i
                                                                   ;25
         u57.150 ;21
 pfS.3:
         u94.15o
                  ; 22
 pfS.3:
```

	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
XEROX	TITLE SCHEMATIC, CPE-FP	A4	SHEET	64	OF	Α

```
u67.14i ;10
pfY.3:
                                           . PI.5:
                                                      J2.36, v36.15i;36
pfY.3:
        v53.12o ;19
                                             PI.5:
                                                      u51.7i
                                                               ;36
        #TP122.1i, v13.150
                             ;20
pfY.3:
        u39.150
                ;21
pfY.3:
                                             pIBPtr.0: u64.3i
                                                                  :07
        u77.15o
                 ;22
pfY.3:
                                                        u43.11o, #TP20.1i;07
                                             pIBPtr.0:
                 ;24
        u25.8i
pfY.3:
        u11.1i ;25
pfY.3:
                                              pIBPtr.1: u64.4i
                                                                  :07
                                              pIBPtr.1: u43.12o, #TP21.1i;07
        v58.3i
                 ;05
pfZ.0:
pfZ.0:
        u30.13i
                 ;10
                                                      J2.01, u19.18o, v35.2i ;36
                                              PIO.0:
pfZ.0:
        v55.18o
                 ;19
                                              PIO.0:
                                                      u51.150 ;36
        v15.120
                 ;20
pfZ.0:
        #TP135.1i, u41.120
                             ;21
pfZ.0:
                                                      J2.02, u19.16o, v35.4i ;36
                                              PIO.1:
        u79.12o
                 ;22
pfZ.0:
                                              PIO.1:
                                                      u51.140 ;36
pfZ.0:
        u27.1i
                 ;24
                ;25
pfZ.0:
        u06.14i
                                                      J2.03, u19.14o, v35.6i ;36
                                              PIO.2:
pfZ.0:
        v95.4i, v95.5i;38
                                              PIO.2:
                                                      u51.130 ;36
        v58.6i
                 ;05
pfZ.1:
                                                      J2.04, u19.12o, v35.8i ;36
                                              PIO.3:
        u30.14i
                 :10
pfZ.1:
                                              PIO.3:
                                                      u51.120 ;36
        v55.16o
                 :19
pfZ.1:
pfZ.1:
        v15.13o
                 ;20
                                                      J2.05, u19.30, v35.17i ;36
                             ;21
                                              PIO.4:
        #TP136.1i, u41.130
pfZ.1:
                                              PIO.4:
                                                      u51.110 ;36
        u79.130 ;22
pfZ.1:
pfZ.1:
        u27.2i
                 ;24
                                              PIO.5:
                                                      J2.06, u19.50, v35.15i ;36
pfZ.1:
        u10.14i
                 ;25
                                              PIO.5:
                                                      u51.10o ;36
                 ;05
pfZ.2:
        v58.10i
                                                      J2.07, u19.70, v35.13i ;36
                                              PIO.6:
        u30.17i
                 ;10
pfZ.2:
                                                      u51.9o
        v55.14o
                 ;19
                                              PIO.6:
                                                               ;36
pfZ.2:
                 ;20
pfZ.2:
        v15.140
                                                      J2.08, u19.90, v35.11i ;36
                                              PIO.7:
        #TP137.1i, u41.14o
                              ;21
pfZ.2:
                                                      u51.1i ;36
                                              PIO.7:
        u79.140 ;22
pfZ.2:
        u27.4i
                 ;24
pfZ.2:
                                                      #TP91.1i, u44.9o, v94.17i ;17
                                              pKR':
        u07.14i
                 ;25
pfZ.2:
                                              pLink.0': #TP57.1i, u84.11o;15
        v58.13i
                 ;05
pfZ.3:
                                              pLink.0': u86.2i
pfZ.3:
        u30.18i
                 ;10
        v55.120
                 ;19
pfZ.3:
                                              pLink.1': #TP58.1i, u84.9o, u86.5i
                                                                                     ;15
                 ;20
pfZ.3:
        v15.15o
        #TP138.1i, u41.150
                              ;21
pfZ.3:
                                              pLink.2': #TP59.1i, u84.7o ;15
pfZ.3:
        u79.150 ;22
                                              pLink.2': u86.10i
        u27.8i
                 ;24
pfZ.3:
pfZ.3:
        u11.14i
                ;25
                                              pLink.3': #TP60.1i, u84.50 ;15
                                              pLink.3': u86.13i
PI.0:
        J2.09, v36.2i ;36
PI.0:
        u51.2i
                 ;36
                                              pMAR←': u31.2i, u99.1i, u72.6o ;10
                                              pMAR←': v94.3i
PI.1:
        J2.10, v36.4i ;36
                 ;36
PI.1:
        u51.3i
                                              pMAS': v96.90, u85.41;32
PI.2:
        J2.11, v36.6i ;36
                                                                         ;32
                                              pMDS': v96.10o, u85.5i
PI.2:
        u51.4i
                 ;36
                                                      u31.8o, u64.7i;17
PI.3:
        J2.12, v36.8i ;36
                                              pME:
PI.3:
        u51.5i
                 ;36
                                                                ;10
                                                      u67.7i
                                              pmem:
        J2.13, v36.17i;36
                                              pmem:
                                                      u72.5i
                                                                ;10
PI.4:
                                              pmem:
                                                      v52.12o ;19
PI.4:
        u51.6i
                ;36
```

	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
XEROX	TITLE SCHEMATIC, CPE-FP	A4	SHEET	65	OF	A

```
;20
        #TP114.1i, v12.15o
pmem:
                                                       u65.4i, u83.5o, J2.22
                                                                                ;36
                                              PO.1:
        u38.150 ;21
pmem:
                 ;22
        u76.150
pmem:
                                              PO.2':
                                                       u65.140, J2.25;36
                 ; 24
pmem:
        u24.8i
        u11.2i
                 ;25
pmem:
                                                                                ;36
                                              PO.2:
                                                       u65.6i, u83.6o, J2.24
pNIA.00':
           u48.4o, #TP29.1i
                                              PO.3':
                                                       u65.12o, J2.27;36
pNIA.00':
           v76.3i
                    ;15
pNIA.00':
           u47.3i
                     ;26
                                                       u65.8i, u83.9o, J2.26
                                                                                ;36
                                              PO.3:
           u48.7o, #TP30.1i ;14
pNIA.01':
                                                       u65.30, J2.29 ;36
                                              PO.4':
pNIA.01':
           v76.4i
                    ;15
pNIA.01':
           u47.6i
                     ;26
                                              PO.4:
                                                       u65.17i, u83.12o, J2.28;36
           u48.90, #TP31.1i ;14
pNIA.02':
                                                       u65.50, J2.31 ;36
pNIA.02':
                                              PO.5':
           v76.7i
                    ;15
pNIA.02':
           u47.11i
                    ;26
                                                       u65.15i, u83.15o, J2.30;36
                                              PO.5:
pNIA.03':
           u48.12o, #TP32.1i;14
                                               PO.6':
                                                       u65.70, J2.33 ;36
pNIA.03':
           v76.8i
                    ;15
                    ;26
pNIA.03':
           u47.14i
                                                       u65.13i, u83.16o, J2.32;36
                                               PO.6:
           v43.4o, #TP33.1i ;14
pNIA.04':
                                               PO.7':
                                                       u19.19i, u65.9o, J2.35 ;36
pNIA.04':
           v76.13i
                   ; 15
                                               PO.7':
                                                       u04.14i ;36
           u82.3i
                     ;26
pNIA.04':
                                               POData←': v89.7o, E28;11
           v43.7o, #TP34.1i
pNIA.05':
                             ; 14
           v76.14i ;15
pNIA.05':
                                                       u17.6i, u17.2i, u17.15i;06
                                               Pop:
           u82.6i
                     ;26
pNIA.05':
                                               Pop:
                                                       u17.11i
                                               Pop:
                                                       u34.3o
                                                                ; 12
                             ; 14
           v43.9o, #TP35.1i
pNIA.06':
pNIA.06':
           v76.17i
                   ; 15
                                              PopX':
                                                       u15.90
                                                                ;11
pNIA.06':
           u82.11i
                    ;26
                                               PopX':
                                                       u34.1i
                                                                ; 12
                                               PopX':
                                                       u16.6i
                                                                ;17
pNIA.07':
           v43.12o, #TP36.1i;14
pNIA.07:
           v76.18i
                     ;15
                                                       u18.10o, #TP181.1i
                                               PopZ':
                                                                             ;11
pNIA.07':
           u82.14i
                     ;26
                                               PopZ':
                                                       u34.2i
                                                                ; 12
           #TP38.1i, v91.8o ;14
                                               PopZ':
                                                       u16.5i
                                                                :17
pNIA.08':
pNIA.08':
           v62.3i
                     ; 15
                     ;26
                                               PortOutput': u01.180 ;28
pNIA.08':
           v31.3i
                                               PortOutput': u19.1i, u65.11i
                                                                                ;36
                                               PortOutput': u83.19o, J2.34
pNIA.09':
           #TP40.1i, v92.8o
                             ; 14
pNIA.09':
           v62.4i
                     ;15
                                               Port←': u32.13o
                                                                :11
pNIA.09':
           v31.6i
                     ;26
                                               Port←': u87.13i
                                                                ;36
           #TP42.1i, v90.8o ;14
pNIA.10':
                                                       u87.12o, u69.5i
                                                                          ;36
pNIA.10':
                                               Port←:
           v62.7i
                     ;15
           v31.11i ;26
pNIA.10':
                                               pPC16': #TP192.1i, u44.11o
                                                                             ;17
                                               pPC16': u64.13i
           #TP44.1i, v93.8o ;14
pNIA.11':
pNIA.11':
                    ;15
           v62.8i
                                               ppClk: v97.8i, v97.5i, E9, v97.2i;18
pNIA.11':
           v31.14i ;26
                                                       u91.4i
                                                                 ;05
                                               prA.O:
PO.0': u65.180, J2.21;36
                                                       v17.3i
                                                                ;10
                                               prA.0:
                                               prA.0:
                                                       v50.18o ;19
PO.0:
        u65.2i, u83.2o, J2.20
                                 ;36
                                               prA.0:
                                                       #TP95.1i, v25.12o;20
                                               prA.0:
                                                       u36.120 ;21
PO.1': u65.160, J2.23;36
```

	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
XEROX	TITLE SCHEMATIC CPF-FP	A4	SHEET	66	OF	A

```
prB.3:
                                                        u92.150
                                                                  ;22
                 ;22
prA.0:
        u74.120
                                                                  ;24
                                               prB.3:
                                                        u22.12i
                  ;24
prA.0:
        u22.1i
                                                        u54.4i
                                                                  ;25
                                               prB.3:
                 ;25
prA.0:
        u06.4i
                                                        u35.3o, u86.12i, u86.9i;15
                                               pRet':
                  :05
        u91.5i
prA.1:
                                                        u86.4i, u86.1i
                                               pRet':
        v17.4i
                  :10
prA.1:
                 ;19
        v50.16o
prA.1:
                                                        v00.12o, u85.12i ;32
                                               pSDS:
        #TP96.1i, v25.13o;20
prA.1:
prA.1:
        u36.130
                 ;21
                                                        #TP87.1i, u16.10o, u64.8i ;17
                                               pSE:
        u74.13o
                 ;22
prA.1:
                  :24
prA.1:
        u22.2i
                                               Pt.0:
                                                        u49.12o, E64
                                                                        :16
        u10.4i
                  ;25
prA.1:
                                               Pt.0:
                                                        v85.17i ;16
prA.2:
        u91.12i
                  :05
                                               Pt.1:
                                                        u49.150, E164
                                                                        ;16
                  ;10
prA.2:
        v17.7i
                                               Pt.1:
                                                        v85.15i ;16
                  ;19
prA.2:
        v50.14o
        #TP97.1i, v25.14o;20
prA.2:
                                                        u49.16o, E65
                                                Pt.2:
                                                                        :16
        u36.14o
                 ;21
prA.2:
                  ;22
                                                Pt.2:
                                                        v85.13i ;16
        u74.14o
prA.2:
        u22.4i
                  ;24
prA.2:
                                                Pt=Emu: u49.19o, #TP69.1i;16
        u07.4i
                  ;25
prA.2:
                                                Pt=Emu: v85.11i
                                                                 ; 16
                                                Pt=Emu: u31.10i
                  ;05
                                                                 ;17
        u91.13i
prA.3:
                  ;10
        v17.8i
prA.3:
                                                                                     ;14
                  ;19
                                                pTC.0:
                                                        v91.1i, v05.3o, #TP37.1i
prA.3:
        v50.12o
        #TP98.1i, v25.150;20
                                                pTC.0:
                                                        v62.13i ;15
prA.3:
                 ;21
prA.3:
        u36.150
                                                pTC.1:
                                                        v92.1i, v05.6o, #TP39.1i
                                                                                     ;14
prA.3:
                 ;22
        u74,150
                                                        v62.14i
                                                pTC.1:
                                                                 ;15
        u22.8i
                  ; 24
prA.3:
        u11.4i
prA.3:
                  ;25
                                                pTC.2:
                                                        v90.1i, v20.12o, #TP41.1i
                                                                                    ; 14
                                                pTC.2:
                                                        v62.17i ;15
prB.0:
        v16.3i
                  ;10
prB.0:
        v50.30
                  ;19
                                                        v93.1i, v20.6o, #TP43.1i
                                                                                     ;14
                                                pTC.3:
        #TP99.1i, v10.12o;20
prB.0:
                                                pTC.3:
                                                        v62.18i
                                                                  ;15
                 ;21
prB.0:
        u55.12o
        u92.12o
                  ;22
prB.0:
                  ;24
                                                                  ;06
                                                Push:
                                                        u17.7i
prB.0:
        u22.9i
                                                Push:
                                                        u53.60
                                                                  ;12
                  ;25
prB.0:
        u08.4i
                                                        u16.7i
                                                Push:
                                                                  ;17
                  ;10
        v16.4i
prB.1:
                                                PushX': u15.70
                                                                  ;11
                  ;19
prB.1:
        v50.50
                                                PushX': u53.5i
        #TP100.1i, v10.13o
                               ;20
                                                                  :12
prB.1:
        u55.130
                 ;21
prB.1:
                                                PushY': v57.120
                                                                  :11
prB.1:
        u92.13o
                  ;22
                                                PushY': u53.3i
                                                                  :12
                  ;24
prB.1:
        u22.10i
        u12.4i
                  ;25
prB.1:
                                                PushZ': u18.90
                                                                  :11
                                                PushZ': u53.4i
                                                                  ;12
                  ;10
prB.2:
        v16.7i
                  ;19
        v50.70
prB.2:
                                                pWaitClk': v97.4o, v21.9i ;18
        #TP101.1i, v10.14o
                               ;20
prB.2:
                                                pWaitClk': v04.5i, v04.10i ;18
                 ;21
prB.2:
        u55.140
                                                pWaitClk': v04.13i, v22.1i, v04.2i
prB.2:
        u92.140
                  ;22
                                                pWaitClk': u46.13i ;38
        u22.11i
                  ;24
prB.2:
prB.2:
        u09.4i
                  :25
                                                Q.00:
                                                         u81.16i ;03
                                                         u63.10i, u63.11i
                                                                            ; 04
                                                0.00:
        v16.8i
                  :10
prB.3:
                                                         u62.3o, #TP5.1i
                                                                            ;04
                                                Q.00:
         v50.90
                  ;19
prB.3:
                               ;20
                                                Q.00:
                                                         u88.1i
                                                                  ;27
         #TP102.1i, v10.150
prB.3:
prB.3:
        u55.150 ;21
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	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG	DWG NO.	156P	12560	SHEET	ı
XEROX	TITLE	SIZE		77		 REV.	ı
ALITOA	I HILE SCHEMATIC CDE.ED	A4	SHEET	6/	OF	A	1

```
;03
                                                         v09.19i
                                                 rB.1:
        u81.21o, u80.16i ;03
0.03:
                                                                  ;03
                                                 rB.1:
                                                         u80.19i
                                                         v47.14i, v48.14i ;06
                                                 rB.1:
Q.07:
        v08.16i
                  :03
                                                         v16.50
                                                                   ;10
                                                 rB.1:
        u80.21o
                 ;03
Q.07:
                                                 rB.2:
                                                         u81.18i
                                                                   ;03
        v08.21o, v09.16i
                            ;03
Q.11:
                                                 rB.2:
                                                         ·v08.18i
                                                                   ;03
                                                         v09.18i
                                                                   ;03
                                                 rB.2:
        v09.21o ;03
0.15:
                                                         u80.18i
                                                                   ;03
                            ;04
                                                 rB.2:
        u62.60, #TP6.1i
Q.15:
                                                          v47.15i, v48.15i ;06
                                                 rB.2:
        u88.2i
                  ;27
0.15:
                                                 rB.2:
                                                          v16.60
                                                                   ;10
                  ;03
R.00:
        u81.8i
                                                                   ;03
                                                          u81.17i
                                                 rB.3:
        u63.13i ;04
R.00:
                                                          v08.17i
                                                                   :03
                                                 rB.3:
                            ;04
R.00:
        u63.7o, #TP3.1i
                                                          v09.17i
                                                                   ;03
                                                 rB.3:
                                                 rB.3:
                                                          u80.17i
                                                                   ;03
R.03:
        u81.9o, u80.8i ;03
                                                          v47.1i, v48.1i;06
                                                 rB.3:
                                                                   ;10
                                                 rB.3:
                                                          v16.90
         v08.8i
                  ;03
R.07:
                   ;03
R.07:
         u80.90
                                                                       ;19
                                                 ReadCS.0:
                                                             v71.70
                                                                       ;25
                                                 ReadCS.0:
                                                             u06.9i
         v08.9o, v09.8i;03
R.11:
                                                                       ;25
                                                 ReadCS.0:
                                                             u10.9i
                                                             u11.9i
                                                                       ;25
                                                 ReadCS.0:
R.15:
         v09.9o
                   ; 03
                                                                       ;25
                                                 ReadCS.0:
                                                             u07.9i
         u62.2i, u63.9o, #TP4.1i;04
R.15:
                                                                       ;25
                                                 ReadCS.0:
                                                             u08.9i
                   ; 04
         u63.3i
R.15:
                                                                       ;25
                                                             u12.9i
                                                 ReadCS.0:
                                                             u54.9i
                                                                       ;25
                                                 ReadCS.0:
                   ;03
         u81.1i
rA.0:
                                                 ReadCS.0:
                                                             u09.9i
                                                                       ;25
         u80.1i
                   ;03
rA.0:
         v09.1i
rA.0:
                   ;03
                                                 ReadCS.1:
                                                             v71.90
                                                                       ;19
                   ;03
rA.0:
         v08.1i
                                                             u06.10i
                                                                       ;25
                                                 ReadCS.1:
         v17.20
                   ;10
rA.0:
                                                             u10.10i
                                                                       ;25
                                                 ReadCS.1:
                                                 ReadCS.1:
                                                             u11.10i
                                                                       ;25
         u81.2i
                   ;03
rA.1:
                                                 ReadCS.1:
                                                             u07.10i
                                                                       ;25
                   ;03
         u80.2i
rA.1:
                                                 ReadCS.1:
                                                             u08.10i
                                                                       ;25
         v09.2i
                   ;03
rA.1:
                                                             u12.10i
                                                                       ;25
                                                 ReadCS.1:
                   ;03
         v08.2i
rA.1:
                                                 ReadCS.1:
                                                             u54.10i
                                                                       :25
         v17.50
                   ;10
rA.1:
                                                 ReadCS.1:
                                                             u09.10i
                                                                       :25
                   ;03
         u81.3i
rA.2:
                                                             v73.90
                                                                       ;19
                                                 ReadCS.2:
                   ;03
         u80.3i
rA.2:
                                                                       ;25
                                                             u06.11i
                                                 ReadCS.2:
                   ;03
         v09.3i
rA.2:
                                                                        ;25
                                                              u10.11i
                                                  ReadCS.2:
                   ;03
rA.2:
         v08.3i
                                                                        ;25
                                                              u11.11i
                                                  ReadCS.2:
         v17.60
                   ;10
rA.2:
                                                              u07.11i
                                                                        ;25
                                                  ReadCS.2:
                                                  ReadCS.2:
                                                              u08.11i
                                                                        ;25
         u81.4i
rA.3:
                   ;03
                                                                        ;25
                                                  ReadCS.2:
                                                              u12.11i
         u80.4i
                   ;03
rA.3:
                                                  ReadCS.2:
                                                              u54.11i
                                                                        ;25
                   ;03
 rA.3:
         v09.4i
                                                                       ;25
                                                  ReadCS.2:
                                                              u09.11i
                   ;03
         v08.4i
 rA.3:
                   ;10
         v17.90
 rA.3:
                                                  ReadCSEn': u12.7i, u11.7i, u10.7i
                                                  ReadCSEn': u09.7i, u08.7i, u07.7i
                   ;03
         u81.20i
 rB.0:
                                                  ReadCSEn': u06.7i, E188, u54.7i
                   :03
 rB.0:
         v08.20i
         v09.20i
                   ;03
 rB.0:
                                                  RefillIntc2:
                                                                 u61.13o, #TP18.1i;07
 rB.0:
         u80.20i
                   :03
                                                                           ;14
                                                  RefillIntc2:
                                                                 u48.1i
         v47.13i, v48.13i
                             :06
 rB.0:
         v16.20
                   ;10
 rB.0:
                                                              E88, u73.6i ;16
                                                  RefReq':
                                                              u88.3i ;27
                                                  RefReq':
                   ;03
         u81.19i
 rB.1:
 rB.1:
         v08.19i
                   ;03
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	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
XEROX	TITLE SCHEMATIC, CPE-FP	A4	SHEET	68	OF	Α

```
;06
                                                            u17.12i, v66.2o, v60.17i
                                                stackP.0:
           u50.8o, E16;12
Refresh:
                                                stackP.0:
                                                            u16.1i
                                                                      ; 17
RefreshY': v57.130
                     ;11
                                                            v66.7o, u17.14i, v60.15i
                                                                                          ;06
                                                stackP.1:
                     ;12
RefreshY': u50.10i
                                                                      ;17
                                                            u16.2i
                                                stackP.1:
                     ;11
RefreshZ': u18.150
                                                            v66.10o, u17.3i, v60.13i
                                                                                          ;06
                                                 stackP.2:
                      ;12
RefreshZ': u50.9i
                                                 stackP.2:
                                                            u16.3i
                                                                      ; 17
        u15.140 ;11
RH←':
                                                            v66.15o, u17.5i, v60.11i
                                                                                          ;06
                                                 stackP.3:
         v21.11i ;18
RH←':
                                                 stackP.3:
                                                            u16.4i
                                                                      ; 17
        v21.10o, v04.9i
                            ;18
RH←:
                                                                       :06
                                                 stackP←':
                                                            v66.1i
                                                 stackP←': u52.100 ;11
SDS':
         v01.29i
                  :30
         u85.110
                  ;32
SDS':
                                                                   :05
                                                         u91.20
                                                 SUA.0:
                                                         v42.7i
                                                                   :05
                                                 SUA.0:
SelectIBO':
                         :07
               v37.1i
                                                          v69.7i
                                                                   ;05
                                                 SUA.0:
               u61.14o, #TP19.1i;07
SelectIBO':
                                                 SUA.0:
                                                          v41.7i
                                                                    ;05
                                                 SUA.0:
                                                          v68.7i
                                                                   ;05
SelectIB1':
               v78.1i
                         ;07
               u43.14o, #TP22.1i;07
SelectIB1':
                                                          u91.70
                                                                    :05
                                                 SUA.1:
                                                          v42.6i
                                                                    ;05
                                                 SUA.1:
SelFP': v24.19i, v32.60, v06.19i
                                      ;38
                                                          v69.6i
                                                                    ;05
                                                 SUA.1:
SelfP': J1.29;38
                                                                    ;05
                                                          v41.6i
                                                 SUA.1:
                                                          v68.6i
                                                                    ;05
                                                 SUA.1:
         u64.190
                   ;30
SFLG':
         v00.6i
                   ;32
SFLG':
                                                                    ;05
                                                 SUA.2:
                                                          u91.100
                                                          v42.5i
                                                                    ;05
                                                 SUA. 2:
                   ;03
         u81.6i
 sh:
                                                          v69.5i
                                                                    :05
                                                 SUA.2:
                   ;03
         u80.6i
 sh:
                                                                    ;05
                                                          v41.5i
                                                 SUA.2:
                   ;03
         v09.6i
 sh:
                                                                    ;05
                                                 SUA.2:
                                                          v68.5i
                   ;03
         v08.6i
 sh:
                   ;12
         u53.12o
 sh:
                                                          u91.150
                                                                    ;05
                                                 SUA.3:
                                                 SUA.3:
                                                          v42.21i
                                                                    ;05
                   ;04
 Shift': u63.14i
                                                          v69.21i
                                                                    ;05
                                                 SUA.3:
 Shift': u15.130
                   ;11
                                                          v41.21i
                                                                    ;05
                                                 'SUA.3:
 Shift': u53.13i
                   ;12
                                                                    ;05
                                                          v68.21i
                                                 SUA.3:
         v01.2o, v34.18i
                             ;30
 SP.0:
                                                          u89.20
                                                                    :05
                                                 SUA.4:
                                                          v42.1i
                                                                    :05
                                                  SUA . 4:
                             ;30
          v01.3o, v34.17i
 SP.1:
                                                  SUA.4:
                                                          v69.1i
                                                                    ;05
                                                  SUA.4:
                                                          v41.1i
                                                                    ;05
          v01.4o, v34.14i
                             ;30
 SP.2:
                                                  SUA.4:
                                                          v68.1i
                                                                    ;05
                                                          J1.16 ;38
                                                  SUA.4:
          v01.5o, v34.13i
                             ;30
 SP.3:
                                                                    ;40
                                                  SUA.4:
                                                          u21.410
                                                          u20.410
                                                                    ;40
                                                  SUA.4:
                             ;30
          v01.390, v34.8i
 SP.4:
                                                                     :05
                                                          u89.70
                                                  SUA.5:
                             ;30
          v01.38o, v34.7i
 SP.5:
                                                                    :05
                                                          v42.2i
                                                  SUA.5:
                                                  SUA.5:
                                                           v69.2i
                                                                     :05
          v01.37o, v34.4i
                             ;30
 SP.6:
                                                          v41.2i
                                                                     ;05
                                                  SUA.5:
                                                                     ;05
                                                  SUA.5:
                                                           v68.2i
                             ;30
 SP.7:
          v01.36o, v34.3i
                                                  SUA.5:
                                                           J1.17;38
                                                           u21.430
                                                                    ;40
                       ;30
                                                  SUA.5:
             u69.9i
 SpActive:
                                                           u20.43o
                                                                    ;40
                                                  SUA.5:
                      ;32
 SpActive:
             u85.10o
                                                                     ;05
                                                           u89.10o
                                                  SUA.6:
 StackErr: u64.90, u45.1i;17
                                                           v42.3i
                                                                     ;05
                                                  SUA.6:
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	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.	
XEROX	TITLE SCHEMATIC CDE-ED	A4	SHEET	69	OF	Α	

```
v69.3i
                  :05
SUA.6:
                                               TCX.1:
                                                        v62.15o, v45.10i
                                                                           ;15
                  :05
        v41.3i
SUA.6:
                 ;05
        v68.3i
SUA.6:
                                               TCX.2:
                                                        v62.160, v45.6i
                                                                           : 15
        J1.18 ;38
SUA.6:
        u21.440
                 ;40
SUA.6:
                                                        v62.19o, v45.4i
                                                                           ; 15
                                               TCX.3:
                 ;40
SUA.6:
        u20.440
                                                        v45.11o, #TP61.1i, v94.7i
                                                                                    ;15
                                               TCY.0:
        u89.150
                  ;05
SUA.7:
                  ;05
        v42.4i
SUA.7:
                                                                                     ;15
                                                        v45.90, #TP62.1i, v94.8i
                                               TCY.1:
                  ;05
        v69.4i
SUA.7:
                  ;05
SUA.7:
        v41.4i
                                                        v45.70, #TP63.1i, v94.13i ;15
                                               TCY.2:
        v68.4i
                  ;05
SUA.7:
        J1.19;38
SUA.7:
                                                        #TP64.1i, v45.50, v94.14i ;15
                                               TCY.3:
                 ;40
        u21.450
SUA.7:
        u20.450
SUA.7:
                 ;40
                                                           v74.11o, #TP45.1i;15
                                               TPC.00':
                                                           u08.13i ;25
                                               TPC.00':
        #TP75.1i, v63.11o, v02.4i ;16
Swc2':
                                                           u47.4i
                                                                     ;26
                                               TPC.00':
                                     ;16
        #TP74.1i, v63.9o, v02.3i
Swc2:
                                                           v74.90, #TP46.1i ;15
                                                TPC.01':
        u82.1i, u47.1i, v31.1i ;26
Swc2:
                                                           u12.13i
                                                                    ; 25
                                                TPC.01':
                                                           u47.5i
                                                                     ;26
                                                TPC.01':
        v91.13i, v91.12i ;14
Swc3':
Swc3':
        v92.13i, v92.12i
                           ;14
                                                           v74.7o, #TP47.1i
                                                                              ;15
                                                TPC.02':
        v93.13i, v93.12i
                           ;14
Swc3':
                                                           u09.13i
                                                                    ; 25
                                                TPC.02':
Swc3':
        v90.13i, v90.12i
                           ;14
                                                TPC.02':
                                                           u47.12i
                                                                    ;26
Swc3':
        v02.50
                  ;16
                                                           v74.50, #TP48.1i ;15
                                                TPC.03':
                  ;14
        v91.9i
Swc3:
                                                TPC.03':
                                                           u54.13i
                                                                     ;25
                  ;14
        v92.9i
Swc3:
                                                           u47.13i ;26
                                                TPC.03':
                  ;14
        v93.9i
Swc3:
                  ;14
         v90.9i
Swc3:
                                                TPC.04':
                                                            v75.11o, #TP49.1i;15
                  ;16
         v02.20
Swc3:
                                                TPC.04':
                                                            u06.12i ;25
                  ;28
Swc3:
         u01.4i
                                                TPC.04':
                                                            u82.4i
                                                                     ;26
SwTAddr': v73.1i, v72.1i, E196;19
                                                            v75.9o, #TP50.1i ;15
                                                TPC.05':
SwTAddr': v73.19i
                                                TPC.05':
                                                                    ; 25
                                                            u10.12i
                                                            u82.5i
                                                                     ;26
                                                TPC.05':
            v76.1i
                     :15
SwTAddr:
SwTAddr:
            v62,1i
                     ;15
                                                            v75.7o, #TP51.1i ;15
                                                TPC.06':
SwTAddr:
            u73.8i
                     ;16
                                                TPC.06':
                                                            u07.12i
                                                                     ; 25
SwTAddr:
            v97.12i ;16
                                                TPC.06':
                                                            u82.12i
                                                                     ;26
SwTAddr:
            E96
                  ;19
                                                            v75.50, #TP52.1i ;15
                                                TPC.07':
TC.0:
         v91.10i
                  ;14
                                                            u11.12i
                                                                     ;25
                                                TPC.07':
                  ;15
TC.0:
         v94.60
                                                                     ;26
                                                TPC.07':
                                                            u82.13i
TC.1:
         v92.10i
                  ; 14
                                                            v44.11o, #TP53.1i;15
                                                TPC.08':
TC.1:
         v94.90
                  :15
                                                            u08.12i ;25
                                                TPC.08':
                                                TPC.08':
                                                            v31.4i
                                                                     ;26
TC.2:
         v90.10i
                  :14
 TC:2:
         v94.120
                  ;15
                                                TPC.09':
                                                            v44.9o, #TP54.1i
                                                TPC.09':
                                                            u12.12i
                                                                     ;25
         v93.10i
                  ; 14
 TC.3:
                                                TPC.09':
                                                            v31.5i
                                                                      ;26
                  ;15
         v94.150
 TC.3:
                                                            v44.70, #TP55.1i ;15
                                                TPC.10':
 TCWaitc1': v94.190 ;18
                                                TPC.10':
                                                            u09.12i
                                                                     ; 25
 TCWaitc1': u31.12i ;18
                                                TPC.10':
                                                            v31.12i
                                                                     ;26
 TCX.0: v62.12o, v45.12i ;15
```

	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
XEROX	TITLE SCHEMATIC, CPE-FP	A4	SHEET	70	OF	Α

```
#C147.2i, #C141.2i, #C148.2i
                                               VCC:
           v44.50, #TP56.1i ;15
TPC.11':
                                                       #C150.2i, #C152.2i, #C151.2i
                                               VCC:
           u54.12i
                     ;25
TPC.11':
                                                        #C137.2i, #C136.2i, #C135.2i
                                               VCC:
                     ;26
TPC.11':
           v31.13i
                                                       #C138.2i, #C139.2i, #C140.2i
                                               VCC:
                                                       #C49.2i, #C125.2i, #C126.2i
                                               VCC:
TTLHigh-a: u68.1i
                     ;10
                                                                 ;40
                                               vcc:
                                                        u21.14i
TTLHigh-a: u99.14i, u99.11i
                                               VCC:
                                                       u21.580
                                                                 ;40
TTLHigh-a: u99.6i, u99.3i
                                                                 ;40
                                                        u21.370
                                               vcc:
TTLHigh-a: u48.6i
                     ;14
                                                                 ;40
                                               vcc:
                                                        u20.37o
                     ;27
TTLHigh-a: u88.5i
                                                                 ;40
                                                        u20.58o
                              ;38
                                               vcc:
TTLHigh-a: v95.11i, v95.3i
                                                                 ;40
                                                        u20.14i
                                               vcc:
                                                        #C64.2i, #C1.2i, #C62.2i
                                               vcc:
TTLHigh-b: u88.6i
                     ;27
                                                        #C60.2i, #C111.2i, #C36.2i
                                               vcc:
TTLHigh-b: v01.11i
                     ;30
                                                        #C33.2i, #C35.2i, #C34.2i
                                               vcc:
                                                        #C149.2i, #C21.2i, #C17.2i
                                               VCC:
TTLHigh-c: u88.7i
                     ;27
                                                        #C48.2i, #C107.2i, #C74.2i
                                               VCC:
                    ;31
TTLHigh-c: u14.13i
                                                        #C113.2i, #C98.2i, #C153.2i
                                               VCC:
TTLHigh-c: u14.4i, u14.1i ;32
                                                        #C43.2i, #C80.2i, #C79.2i
                                               vcc:
                                                        #C96.2i, #C106.2i, #C94.2i
                                               VCC:
        v08.10i, u80.10i, u81.10i
vcc:
                                                        #C87.2i, #C88.2i, #C61.2i
                                               vcc:
        v09.10i
vcc:
                                                        #C65.2i, #C47.2i, #C145.2i
                                               VCC:
        u88.150, u88.140, u88.130
vcc:
                                                        #C133.2i, #C129.2i, #C130.2i
                                               VCC:
vcc:
        u88.120, u88.110, u88.100
                                                        #C127.2i, #C134.2i, #C122.2i
                                               VCC:
        u88.90, u88.160
vcc:
                                                        #C110.2i, #C120.2i, #C121.2i
                                                vcc:
        #R2.10
                  ;27
vcc:
                                                        #C112.2i, #C124.2i, #C131.2i
                  ;27
                                                vcc:
vcc:
        #R1.10
                                                        #C108.2i, #C128.2i, #C109.2i
                                                vcc:
vcc:
         u01.20o
                  ;28
                                                        #C2.2i, #C157.2i, #C158.2i
                                                vcc:
vcc:
         v01.40i
                  ;30
                                                        #C154.2i, #C155.2i
                                                vcc:
VCC:
         f01.1i
                  :36
                                                                           ;42
                                                VCC:
                                                        u42.20o, u02.16o
VCC:
         u51.160
                  :36
                                                        #C11.10, #C12.10, f02.1i
                                                                                     ;42
         #C28.2i, #C93.2i, #C51.2i
                                                vcc:
VCC:
VCC:
         #C90.2i, #C77.2i, #C63.2i
                                                                  ;07
                                                Wait:
                                                        v38.3i
vcc:
         #C30.2i, #C15.2i, #C14.2i
                                                Wait:
                                                        v63.5i
                                                                  ;16
         #C13.2i, #C146.2i, #C132.2i
VCC:
                                                        v97.6i, u35.4i, v20.8o, E17
                                                                                        ; 18
                                                Wait:
         #C144.2i, #C143.2i, #C142.2i
VCC:
                                                                  ;28
         #C4.2i, #C5.2i, #C7.2i
                                                        v86.15i
                                                Wait:
vcc:
vcc:
         #C31.2i, #C6.2i, #C8.2i
                                                           v02.17i, u70.8o, v20.11i
                                                                                        ; 18
                                                Waitc1':
         #C32.2i, #C29.2i, #C10.2i
vcc:
         #C16.2i, #C18.2i, #C19.2i
vcc:
                                                           v02.18i, v02.16o, v20.10i
                                                                                        ;18
         #C20.2i, #C50.2i, #C9.2i
                                                Waitc2':
vcc:
         #C119.2i, #C118.2i, #C117.2i
vcc:
                                                                                        ; 18
                                                           v94.18i, v02.19o, v20.9i
         #C116.2i, #C115.2i, #C114.2i
                                                Waitc3':
vcc:
         #C53.2i, #C52.2i, #C44.2i
vcc:
                                                           u81.15i, u80.15i
                                                                               ;03
                                                WaitClk:
         #C46.2i, #C75.2i, #C73.2i
vcc:
                                                           v08.15i, v09.15i
                                                                               ;03
                                                WaitClk:
VCC:
         #C72.2i, #C89.2i, #C3.2i
                                                WaitClk:
                                                           v66.9i
                                                                     ;06
vcc:
         #C68.2i, #C67.2i, #C66.2i
                                                WaitClk:
                                                           v21.80
                                                                     ; 18
vcc:
         #C86.2i, #C85.2i, #C84.2i
         #C83.2i, #C82.2i, #C81.2i
                                                WaitClk:
                                                           v19.2i
                                                                     ;26
vcc:
                                                            u64.11i
                                                                     ;29
                                                WaitClk:
         #C104.2i, #C103.2i, #C102.2i
vcc:
                                                                               ;32
                                                            v33.11i, u85.9i
         #C101.2i, #C100.2i, #C99.2i
                                                WaitClk:
vcc:
         #C42.2i, #C41.2i, #C40.2i
vcc:
                                                           v86.5o, u01.3i ;28
                                                WaitPin':
         #C39.2i, #C38.2i, #C37.2i
VCC:
         #C59.2i, #C58.2i, #C57.2i
vcc:
                                                                                     ;36
                                                WPort: v40.11i, u83.11i, u69.60
         #C56.2i, #C55.2i, #C54.2i
vcc:
VCC:
         #C71.2i, #C70.2i, #C69.2i
                                                WrIBFront: v65.11i
                                                                     ; 07
         #C123.2i, #C45.2i, #C95.2i
vcc:
         #C76.2i, #C97.2i, #C91.2i
                                                WrIBFront: v04.110
                                                                     ;18
vcc:
         #C92.2i, #C105.2i, #C78.2i
VCC:
                                                            v37.11i, v78.11i ;07
                                                WriteIB:
         #C27.2i, #C26.2i, #C25.2i
vcc:
         #C24.2i, #C23.2i, #C22.2i
                                                WriteIB:
                                                            v97.10o
                                                                     ; 18
vcc:
```

```
X.04:
                                                          v61.30
                                                                    ;08
                                                 X.04:
                                                                    ; 08
                                                          v88.14o
                         ;15
               u84.3i
WriteLink':
                                                          v23.14i
                                                                    ;13
                                                 X.04:
                         ;18
               v04.60
WriteLink':
                                                                    ;36
                                                 X.04:
                                                          v36.30
                                                          v06.6i
                                                                    ;38
                                                 X.04:
WriteRH': v48.3i, v47.3i;06
WriteRH': v04.80
                     :18
                                                          E143, u80.23i
                                                                           ;03
                                                 X.05:
                                                                    ;05
                                                          v84.50
                                                 X.05:
                      ;05
            v42.20i
WriteSU':
                                                           v37.14i
                                                                    ;07
                                                 X.05:
                      ;05
            v69.20i
WriteSU':
                                                                    ;08
                                                 X.05:
                                                           v61.50
                      ;05
WriteSU':
            v41.20i
                                                                    ;08
                                                  X.05:
                                                           v82.14o
            v68.20i
                      ;05
WriteSU':
                                                           v36.50
                                                                     ;36
                                                  X.05:
WriteSU':
            v04.3o
                      ;18
                                                                     ;38
                                                           v06.7i
                                                  X.05:
                      ;15
WriteTC':
            v45.3i
                                                           E44, u80.24i
                                                                           ;03
                                                  X.06:
                      ;18
WriteTC':
            v05.80
                                                                     ;05
                                                  X.06:
                                                           v84.70
                                                  X.06:
                                                           v37.17i
                                                                     :07
WriteTPC': v75.3i, v74.3i, v44.3i ;15
                                                                     :08
                                                  X.06:
                                                           v61.70
WriteTPC': v22.8o
                      ;18
                                                                     :08
                                                  X.06:
                                                           v81.14o
                                                                     ;36
                                                           v36.70
                                                  X.06:
                                ;19
                E91, v72.11i
WrTPCHigh':
                                                                     ;38
                                                           v06.8i
                                                  X.06:
                                       ;18
WrTPCLow: v22.9i, E191, v22.10i
                                                                           ;03
                                                           E144, u80.25i
                                                  X.07:
                                                           v84.90
                                                                     ;05
                                                  X.07:
         E41, u81.22i
X.00:
                                                  X.07:
                                                           v37.18i
                                                                     ;07
         v84.18o
                  ;05
X.00:
                                                  X.07:
                                                           v61.90
                                                                     ;08
                   ;07
         v37.3i
X.00:
                                                           v80.14o
                                                                     ;08
                                                  X.07:
                   ;08
X.00:
         v39.30
                                                           v36.90
                                                                     ;36
                                                  X.07:
                   ;08
X.00:
         v88.150
                                                                     ;38
                                                  X.07:
                                                           v06.9i
                   ;13
         v49.14i
X.00:
                   ;36
         v36.18o
X.00:
                                                           E45, v08.22i
                                                                            ;03
                                                  X.08:
         v06.2i
                   ;38
X.00:
                                                  X.08:
                                                           v83.18o
                                                                     ;05
                                                                     ;06
                                                  X.08:
                                                           v48.12i
         E141, u81.23i
                          ;03
X.01:
                                                           v39.18o
                                                                     ;06
                                                  X.08:
          v84.16o
 X.01:
                   ; 05
                                                                     ;07
                                                  X.08:
                                                           v78.3i
                    ;07
 X.01:
          v37.4i
                                                                     ;08
                                                  X.08:
                                                           v88.12o
                    ;08
 X.01:
          v39.50
                                                                     ;09
                                                           v59.40
                                                  X.08:
                   ;08
          v82.150
 X.01:
                                                                     ;09
                                                  X.08:
                                                           v46.40
                   ;36
          v36.160
 X.01:
                                                                     :09
                                                  X.08:
                                                           v60.18o
          v06.3i
                    ;38
 X.01:
                                                  X.08:
                                                           v23.13i
                                                                     ;13
                                                  X.08:
                                                           v34.20
                                                                      ;30
          E42, u81.24i
                          ;03
 X.02:
                                                                     :36
                                                  X.08:
                                                           v35.18o
                   ; 05
 X.02:
          v84.14o
                                                                     :36
                                                           v03.18o
                                                  X.08:
                    ;07
 X.02:
          v37.7i
                                                           v24.2i
                                                                      ;38
                                                  X.08:
                    ;08
          v39.70
 X.02:
          v81.150
                    ;08
 X.02:
                                                           E145, v08.23i
                                                                            ;03
                                                   X.09:
                    ;36
          v36.140
 X.02:
                                                                     ; 05
                                                           v83.16o
                                                   X.09:
                    ;38
          v06.4i
 X.02:
                                                                     ;06
                                                   X.09:
                                                            v48.10i
                                                   X.09:
                                                            v39.160
                                                                     ;06
          E142, u81.25i
 X.03:
                                                   X.09:
                                                            v78.4i
                                                                      ;07
          v84.12o
                   ; 05
 X.03:
                                                            v82.12o
                                                                      ;08
                                                   X.09:
 X.03:
          v37.8i
                    ;07
                                                                      :09
                                                   X.09:
                                                            v59.70
 X.03:
          v39.90
                    ;08
                                                                      ;09
                                                   X.09:
                                                            v46.70
          v80.15o
                    ;08
 X.03:
                                                                      ;09
                                                   X.09:
                                                            v60.160
          v36.12o
                    ;36
 X.03:
                                                            v23.15i
                                                                      ;13
                                                   X.09:
                    ;38
          v06.5i
 X.03:
                                                                      ;30
                                                   X.09:
                                                            v34.50
                                                                      ;36
                                                            v35.160
                                                   X.09:
          E43, u80.22i
                           ;03
 X.04:
                                                            v03.16o
                                                                      ;36
                                                   X.09:
                    ;05
          v84.30
 X.04:
                                                            v24.3i
                                                                      ;38
                                                   X.09:
                   ;07
 X.04:
          v37.13i
```

	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
XEROX	TITLE COURMATIC ORE ED	A4	SHEET	72	OF	<u>A</u>

```
E48, v09.24i
                                                  X.14:
                                                           v83.7o
                                                  X.14:
                                                                    ;05
                         ;03
         E46, v08.24i
X.10:
                                                           v60.7o, v61.14o
                                                                               ;06
                                                  X.14:
X.10:
         v83.140
                  ;05
                                                  X.14:
                                                           v47.6i
                                                                     ;06
         v39.14o
                  :06
X.10:
                                                  X.14:
                                                           v78.17i
                                                                     ;07
                   :06
         v48.6i
X.10:
                                                           v81.11o
                                                                     ;08
                                                  X.14:
                   ;07
         v78.7i
X.10:
                                                  X.14:
                                                           v64.90
                                                                     ;09
         v81.12o
                  ;08
X.10:
                                                                     :09
                                                  X.14:
                                                           v85.14o
                   ;09
         v59.90
X.10:
                                                  X.14:
                                                           v23.4i
                                                                     :13
                   ;09
X.10:
         v46.90
                                                                     ;30
                                                  X.14:
                                                           v34.16o
                   ;09
         v60.14o
X.10:
                                                  X.14:
                                                           v35.7o
                                                                     ;36
                   ;13
X.10:
         v49.15i
                                                                     ;36
                                                  X.14:
                                                           v03.70
                   ;30
         v34.60
X.10:
                                                                     ;38
                                                  X.14:
                                                           v24.8i
X.10:
         v35.14o
                   ;36
         v03.14o
                   ;36
X.10:
                                                           E148, v09.25i ;03
                                                  X.15:
X.10:
         v24.4i
                   ;38
                                                  X.15:
                                                           v83.90
                                                                     ;05
                                                                               ;06
                                                           v60.90, v61.120
                                                  X.15:
         E146, v08.25i
X.11:
                         ;03
                                                  X.15:
                                                           v47.4i
                                                                     ;06
X.11:
         v83.12o
                   ;05
                                                           v78.18i
                                                                     ;07
                                                  X.15:
         v39.12o
                   ;06
X.11:
                                                           v80.11o
                                                                     ;08
                                                  X.15:
                   ;06
         v48.4i
X.11:
                                                           v64.12o
                                                                    .;09
                                                  X.15:
                   ;07
X.11:
         v78.8i
                                                  X.15:
                                                           v85.12o
                                                                     ;09
X.11:
         v80.12o
                   ;08
                                                                     ;13
                                                  X.15:
                                                           v49.4i
         v59.12o
                   ;09
X.11:
                                                  X.15:
                                                           v49.13i
                                                                     ;13
                   ;09
X.11:
         v46.12o
                                                           v34.19o
                                                                     ;30
                                                  X.15:
         v60.12o
                   ;09
X.11:
                                                           v35.90
                                                                     ;36
                                                  X.15:
                   ;13
X.11:
         v07.13i
                                                                     ;36
                                                           v03.90
                                                  X.15:
                   ;30
         v34.9o
X.11:
                                                           v24.9i
                                                                     ;38
                                                  X.15:
                   ;36
X.11:
         v35.120
X.11:
         v03.12o
                   ;36
                                                  XBus←IB':
                                                               v38.2i
                                                                         ;07
X.11:
         v24.5i
                   ;38
                                                               v59.15i
                                                                         ;09
                                                  XBus←IB':
                                                  XBus←IB':
                                                               v64.15i
                                                                         :09
                          ;03
         E47, v09.22i
X.12:
                                                  XBus←IB':
                                                               u33.60
                                                                         ;12
X.12:
         v83.3o
                   ;05
         v60.3o, v61.18o
                             ;06
X.12:
                                                               u87.11i, u72.3o, v83.1i;05
                                                  XBus←SU':
         v47.12 i
                   ;06
X.12:
                                                  XBus←SU':
                                                               v84.1i
         v78.13i
                   ;07
X.12:
         v88.11o
X.12:
                   ;08
                                                               u87.10o. v83.19i, v84.19i ;05
                                                  XBus←SU:
         v64.40
                   ;09
X.12:
         v85.18o
                   ;09
X.12:
                                                  XByte': u53.8o, u46.10i
         v77.2i
                    ;13
X.12:
                   ;30
         v34.12o
X.12:
                                                               v39.19i, v61.19i ;08
                                                   Xhiqh←0:
                    ;36
          v35.3o
X.12:
                                                               u46.8o
                                                                         ;12
                                                  Xhigh←0:
          v03.30
                    ;36
X.12:
 X.12:
          v24.6i
                    ;38
                                                            u81.39o, E49
                                                                            ;03
                                                   Y.00:
                                                   Y.00:
                                                            v42.15i
                                                                      ;05
          E147, v09.23i ;03
 X.13:
                                                            v88.4i
                                                                      ;08
                                                   Y.00:
 X.13:
          v83.50
                   ;05
                                                            u83.3i
                                                                      ;36
                                                   Y.00:
                              :06
          v60.5o, v61.16o
 X.13:
          v47.10i
                    ;06
 X.13:
                                                            u81.38o, E149
                                                                            ;03
                                                   Y.01:
                    ;07
 X.13:
          v78.14i
                                                            v42.13i
                                                                      ;05
                                                   Y.01:
                    ;08
          v82.11o
 X.13:
                                                            v82.4i
                                                                      ;08
                                                   Y.01:
                    ;09
 X.13:
          v64.70
                                                            u83.4i
                                                                      ;36
                                                   Y.01:
          v85.160
                    :09
 X.13:
 X.13:
          v77.5i
                    ;13
                                                   Y.02:
                                                            u81.370, E52
                                                                             ;03
                    :30
 X.13:
          v34.150
                                                                      ;05
                                                   Y.02:
                                                            v42.11i
          v35.50
                    ;36
 X.13:
                                                            v81.4i
                                                                      ;08
                                                   Y.02:
                    ;36
          v03.50
 X.13:
                                                            u83.7i
                                                                      ;36
                                                   Y.02:
          v24.7i
                    ;38
 X.13:
```

	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
XEROX	TITLE SCHEMATIC CPF-FP	A4	SHEET	73	OF	Α

```
;05
                                                  Y.12:
                                                           v68.15i
         u81.36o, E152
Y.03:
                                                  Y.12:
                                                           v66.3i
                                                                     ;06
         v42.9i
                   ;05
Y.03:
                                                  Y.12:
                                                           v88.3i
                                                                     ;08
         v80.4i
                   ;08
Y.03:
                                                           v88.7i
                                                                     ;08
                                                  Y.12:
         u83.8i
                   ;36
Y.03:
                                                  Y.12:
                                                           v77.3i
                                                                     ;13
                                                                     ;26
                                                  Y.12:
                                                           v19.6i
Y.04:
         u80.390, E53
                          ;03
                                                                     ;30
                                                  Y.12:
                                                          · v56.13i
Y.04:
         v69.15i
                   ;05
                                                           v40.13i
                                                                     ;36
                                                  Y.12:
         v88.1i
                   ;08
Y.04:
                   ;08
Y.04:
         v88.5i
                                                                            ;03
                                                           v09.38o, E157
                                                  Y.13:
         u83.13i
                  ;36
Y.04:
                                                  Y.13:
                                                           v68.13i
                                                                     ; 05
                                                  Y.13:
                                                           v58.5i
                                                                      ;05
                          :03
         u80.38o, E153
Y.05:
                                                  Y.13:
                                                           v66.6i
                                                                      ;06
                   ;05
         v69.13i
Y.05:
                                                  Y.13:
                                                           v82.3i
                                                                      ;08
                   ;08
         v82.1i
Y.05:
                                                  Y.13:
                                                           v82.7i
                                                                      ;08
                   ;08
         v82.5i
Y.05:
                                                                      ;13
                                                  Y.13:
                                                           v77.6i
                   ;36
         u83.14i
Y.05:
                                                                      ;26
                                                  Y.13:
                                                           v19.5i
                                                                      ;30
                                                  Y.13:
                                                           v56.14i
                          ;03
         u80.37o, E54
Y.06:
                                                           v40.14i
                                                                     ;36
                                                  Y.13:
         v69.11i
                   ;05
Y.06:
         v81.1i
                   ;08
Y.06:
                                                            v09.37o, E58
                                                                             :03
                                                  Y.14:
                   ;08
Y.06: -
         v81.5i
                                                  Y.14:
                                                            v68.11i
                                                                     :05
                   ;36
         u83.17i
Y.06:
                                                  Y.14:
                                                                      ;05
                                                            v58.11i
                                                  Y.14:
Y.14:
                                                            v66.11i
                                                                      ;06
         u80.36o, E154
                          ;03
Y.07:
                                                            v81.3i
                                                                      ;08
         v69.9i
                   ;05
Y.07:
                                                  Y.14:
Y.14:
                                                                      ;08
                                                            v81.7i
         v80.1i
                   ;08
Y.07:
                                                            v23.3i
                                                                      ;13
Y.07:
         v80.5i
                   ;08
                                                   Y.14:
                                                            v19.4i
                                                                      ;26
Y.07:
         u83.18i
                   ;36
                                                   Y.14:
                                                            v56.17i
                                                                      ;30
                                                   Y.14:
                                                            v40.17i
                                                                      ;36
                          ;03
         v08.39o, E55
Y.08:
         v41.15i
                   ;05
Y.08:
                                                            v09.36o, E158
                                                                             ;03
                                                   Y.15:
         v88.2i
                   ;08
Y.08:
                                                   Y.15:
                                                            v68.9i
                                                                      ;05
                   ;08
         v88.6i
Y.08:
                                                            v58.14i
                                                                      ;05
                                                   Y.15:
         v56.3i
                    ;30
Y.08:
                                                                      ;06
                                                            v66.14i
                                                   Y.15:
         v40.3i
                    ;36
Y.08:
                                                            v80.3i
                                                                      ;08
                                                   Y.15:
                                                                      ;08
                                                   Y.15:
                                                            v80.7i
         v08.38o, E155
                          ;03
Y.09:
                                                                      ;13
                                                   Y.15:
                                                            v49,3i
         v41.13i
Y.09:
                   ; 05
                                                                      ;26
                                                   Y.15:
                                                            v19.3i
Y.09:
         v82.2i
                    ;08
                                                            v56.18i
                                                                      ;30
                                                   Y.15:
Y.09:
         v82.6i
                    ;08
                                                   Y.15:
                                                            v40.18i
                                                                      ;36
          v56.4i
                    ;30
Y.09:
Y.09:
          v40.4i
                    ;36
                                                            v39.2i, v48.11o, E59;06
                                                   YH.0:
                                                            v22.4i
                                                   YH.0:
                                                                      ;18
                           ;03
          v08.37o, E56
Y.10:
                   ;05
          v41.11i
Y.10:
                                                            v39.4j. v48.9o, E159;06
                                                   YH.1:
                    ;08
          v81.2i
Y.10:
                    ;08
          v81.6i
 Y.10:
                                                            v39.6i, v48.7o, E61 ;06
                                                   YH.2:
          v56.7i
                    ;30
 Y.10:
                    ;36
 Y.10:
          v40.7i
                                                            v39.8i, v48.5o, E161;06
                                                   YH.3:
                                                   YH.3:
                                                            v22.3i
                                                                      ;18
                           ;03
 Y.11:
          v08.36o, E156
                                                            u70.1i
                                                                      ;18
                                                   YH.3:
 Y.11:
          v41.9 i
                    ;05
          v80.2i
                    ;08
 Y.11:
                                                            v61.2i, v47.11o, E62;06
                                                   YH.4:
 Y.11:
          v80.6i
                    ;08
                                                   YH.4:
                                                            v38.10i ;18
 Y.11:
          v56.8i
                    ;30
 Y.11:
          v40.8i
                    ;36
                                                            v61.4i, v47.9o, E162;06
                                                   YH.5:
                                                            v38.9i
                                                                     ; 18
                                                   YH.5:
                           ;03
 Y.12:
          v09.39o, E57
                    ;05
          v58.2i
 Y.12:
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ſ		PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG NO. 156P12560			SHEET REV.	
١	XEROX	TITLE SCHEMATIC, CPE-FP	A4	SHEET	74	OF	Α

```
v61.6i, v47.7o, E63 ;06
YH.6:
                                            ←TStatus': v89.12o, E26
YH.6:
       v38.8i
               ;18
       v61.8i, v47.5o, E163;06
YH.7:
       v38.11i ;18
YH.7:
YIODisp.0: E39, v23.1i;13
YIODisp.1: E139, v49.1i
←DES': u18.110 ;11
←DES': u46.9i
                 ;12
←DES': v34.1i
                 ;30
←DES': v00.7i
                 ;32
←EIData': v79.15o, E31
←EIStatus': v79.14o, E131 ;11
←ErrIBStkp': v60.19i ;06
←ErrIBStkp': v60.1i
                       ;09
←ErrIBStkp': v87.13o ;11
←FP':
        v24.1i
                 ;38
←FP':
        v06.1i
                 ;38
        u46.60
                 ;38
←FP':
←ib':
        u61.16i, u43.16i ;07
        v87.10o, #TP182.1i ;11
←ib':
                    ;09
←ibHigh': v64.1i
                  ;11
←ibHigh': v87.7o
              v87.15o, E34
                             ;11
←IOPIData':
←IOPStatus': v87.14o, E134 ;11
←KIData': v79.13o, E32
←KStatus': v79.12o, E132 ;11
←KTest': v79.9o, E33 ;11
←MStatus': v79.10o, E114 ;11
←Port': u32.12o ;11
←Port': v36.1i, v36.19i
                         ;36
←Port': u04.15i ;36
           u04.12o ;36
←PortA':
           v35.1i, v35.19i
←PortA':
←PortB':
           u04.110 ;36
                             ;36
           v03.1i, v03.19i
←PortB':
        v39.1i, v61.1i;06
 ←RH':
 ←RH':
        v87.12o ;11
 ←TIData': v89.9o, E127 ;11
```

;11

	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
XEROX	TITLE SCUEMATIC CDE ED	A4	SHEET	75	OF	LA